



**PETITION FOR CLOSURE
OU III North Street Groundwater Treatment System**

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1.0 INTRODUCTION

1.1 Purpose

The purpose of this Petition for Closure of the Operable Unit (OU) III North Street groundwater treatment system is to document that the present conditions of the groundwater meet the objectives for closure criteria established in the OU III Record of Decision (ROD) (BNL 2000), the OU III Explanation of Significant Differences (ESD) (BNL 2005) and the Operation and Maintenance Manual for the North Street/North Street East Groundwater Treatment System (BNL 2004). The Petition for Shutdown of this system was approved in July 2013 (BNL 2013). During the standby period, which started in August 2013, the system was temporarily restarted twice due to rebound in total volatile organic compound (TVOC) concentrations in monitoring wells above the 50 µg/L capture goal. The system has not operated since August 2016 but continues to be maintained in an operationally ready state. This Petition documents an administrative approval request for closure of this system. No monitoring wells or extraction wells will be abandoned until the extent of PFAS and 1,4-dioxane contamination originating from the BNL site has been adequately characterized.

1.2 Regulatory History

Brookhaven National Laboratory (BNL) is a federal facility owned by the United States Department of Energy (DOE) and operated by Brookhaven Science Associates (BSA). On December 21, 1989, the BNL site was included on the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) National Priorities List (NPL) under Section 120 of CERCLA. The United States Environmental Protection Agency (EPA), New York State Department of Environmental Conservation (NYSDEC), and the DOE entered into a Federal Facilities Agreement, which became effective in May 1992, herein referred to as the Interagency Agreement (IAG) Administrative Docket Number: II-CERCLA-FFA-00201. The primary concern addressed in the IAG is the protection of the sole source aquifer for Suffolk County which underlies OU III. This was documented in the OU III ROD which required cleanup of the groundwater in the Upper Glacial aquifer at BNL to NYSDEC drinking water standards or Maximum Contaminant Levels (MCLs) in 30 years or less (by 2030). The ESD addressed the Magothy aquifer contamination and required that NYSDEC drinking water standards or MCLs be met in 65 years or less (by 2065).

1.3 Site Description and Release History

The OU III volatile organic compounds (VOC) plume in the off-site North Street consists of industrial solvents and related breakdown products. The primary VOCs associated with this plume are carbon tetrachloride, tetrachloroethene (PCE), 1,1,1 trichloroethane (TCA), and chloroform. The contributing source areas for this plume included OU I (Former Landfill, Chemical/Animal Pits and the Glass Holes), and OU IV (Central Steam Facility area) located on the BNL property. The plume migrated in a southerly direction along with the regional groundwater flow. The plume remnants currently extend from the intersection of the LIPA right-of-way and North Street to the Brookhaven Airport, approximately 5,000 feet. The North Street groundwater remediation system was intended to remediate the high VOC concentrations that extended from the site boundary to North Street. The low VOC concentration portions of the plume located south of the North Street remediation system capture zone is being addressed by the Airport treatment system located at the southern end of the plume.

2.0 SYSTEM CLOSURE DETERMINATION

2.1 System Closure Criteria

The following criteria for system closure were established in the *Operation and Maintenance Manual for the North Street/North Street East Groundwater Treatment Systems* and states:

“The OU III Record of Decision requires that these VOC plumes be treated.

For the NS system the clean-up objective of 50 to 60 ug/l TVOC concentration or asymptote will be reached in the aquifer surrounding each extraction well for four consecutive quarterly sampling rounds before shutting off the associated extraction well. This would require that extraction well NS-1 and the core monitoring wells upgradient from NS-1 (000-108, 000-154, 000-463, 000-464, 000-465), have no TVOC concentrations detected greater than or equal to 50 to 60 ug/l or asymptote for four consecutive sampling quarters. This also would require that extraction well NS-2 and the core monitoring wells upgradient from NS-2 (000-108, 000-212, 000-213, 000-472, 000-474, 000-475, 000-467), have no TVOC concentrations detected greater than or equal to 50 to 60 ug/l or asymptote for four consecutive sampling quarters. If these conditions are met, a Petition for Shutdown may be submitted to the regulators for system shutdown. Individual extraction wells may be turned off based upon meeting these criteria for the capture zone of that well and by recommendation in the annual report and/or quarterly reports. In addition to the above the overall plume size and cumulative mass removed will be evaluated as well as an evaluation of trends of wells in the plume. The remediation will also be evaluated on the comparison of forecasted plume and mass removal to actual monitoring data.

If contaminants remain low (either below the capture goal or an asymptote) for a given period of time, and current modeling supports the projection that MCLs (maximum contaminant levels) or an asymptote will be reached within the 30 years, DOE then submits a Petition for Closure of the treatment system to the regulators. Once approved for closure, the treatment system will be dismantled and groundwater monitoring will continue.”

This Petition demonstrates that the current conditions of the plume are consistent with the closure criteria for this treatment system.

2.2 Groundwater Treatment System Overview

Building OS-5, located along North Street in Manorville houses two separate groundwater treatment systems, North Street and North Street East. The facility treats water from two extraction wells for the North Street system, extraction well NS-1 located on Sleepy Hollow Drive, and extraction well NS-2 located on the western side of North Street. Extraction well NS-2 is also part of the remedy identified in the OU III ESD for Magothy aquifer contamination. The objective of this extraction well was to capture the contamination in the deep Upper Glacial aquifer and prevent migration into the Magothy aquifer. The extraction wells for the North Street East System are located in the central portion of the wooded undeveloped property east of North Street. The location and layout of the system, including the extraction and recharge wells is shown on **Figure 1**. The system includes two 20,000 pound granular activated carbon (GAC) vessels.

The treated effluent is discharged to a set of four injection wells (IW-1 through IW-4) that are common to both the North Street and North Street East treatment systems. The extraction well construction information is summarized in **Table 1** below:

Table 1
North Street Extraction Well Construction Data

Well ID and Site ID	Casing Diameter (in.)	Well Total Depth (feet below land surface)	Screen Interval (feet below land surface)	Casing Type	Screen Slot Size (in.)	Screen Type
NS-1 (000-471)	8	208	165-205	Carbon Steel	0.020	Stainless steel
NS-2 (000-473)	8	223	190-220	Carbon Steel	0.020	Stainless steel

2.3 Groundwater and System Monitoring

Well Network

A network of 18 wells is used to monitor the North Street VOC plume (**Figure 2**).

Sampling Frequency and Analysis

In 2013, following system shutdown, the sampling frequency for the 18 monitoring wells was changed from quarterly to semi-annual. Due to rebound of VOCs in two monitoring wells, the sampling frequency for the core wells was increased to quarterly from 2015 through 2018. Since 2019, the wells have been sampled semi-annually. All samples are analyzed for VOCs. Since there have been no detections of tritium above 1,000 pCi/L in any of the North Street monitoring wells since 2004, sampling for tritium in the monitoring wells was discontinued in 2014.

2.3.1 Monitoring Well Data Evaluation

The primary VOCs associated with this plume are carbon tetrachloride, PCE, TCA, and chloroform. **Figure 3** depicts the TVOC plume distribution based on 2019 data. A summary of VOC detections since 2016 are included in **Appendix 1**.

A summary of monitoring well data for the North Street groundwater treatment system is as follows:

- Since the system last operated in 2016, TVOC concentrations in the plume were below the 50 µg/L capture goal, except for one sample. In 2017, the TVOC concentration in well 000-465 was initially reported at 147 µg/L during August. However, a resample of this well two weeks later showed a TVOC concentration of 8 µg/L. This resampling result was consistent with data from May and November 2017 samples of 7 µg/L and 10 µg/L, respectively. Over the last eight consecutive sampling rounds, all TVOC concentrations were less than 50 µg/L, with the maximum concentration of 38 µg/L in May 2018 in well 000-465.

- In 2019, the highest TVOC concentration in the plume core wells was 16 µg/L in well 000-472 during second quarter (May) sampling. The highest individual VOCs in this well was PCE at 9 µg/L. This well is located immediately west of extraction well NS-2.
- Since 2016, the maximum individual VOC in plume bypass well 000-213 was 13 µg/L of TCA in December 2018.
- In 2018 and 2019, only five of the twelve plume core wells detected individual VOCs above MCLs. The maximum VOC was carbon tetrachloride detected in well 000-465 at 28 µg/L in May 2018. By November 2019, the maximum carbon tetrachloride concentration in this well dropped to 7 µg/L.

Figure 4 shows historical plots of the TVOC concentrations for the core monitoring wells. No rebound in VOC concentrations has been observed in the monitoring wells since 2016, except for the initial elevated detection in well 000-465 in August 2017.

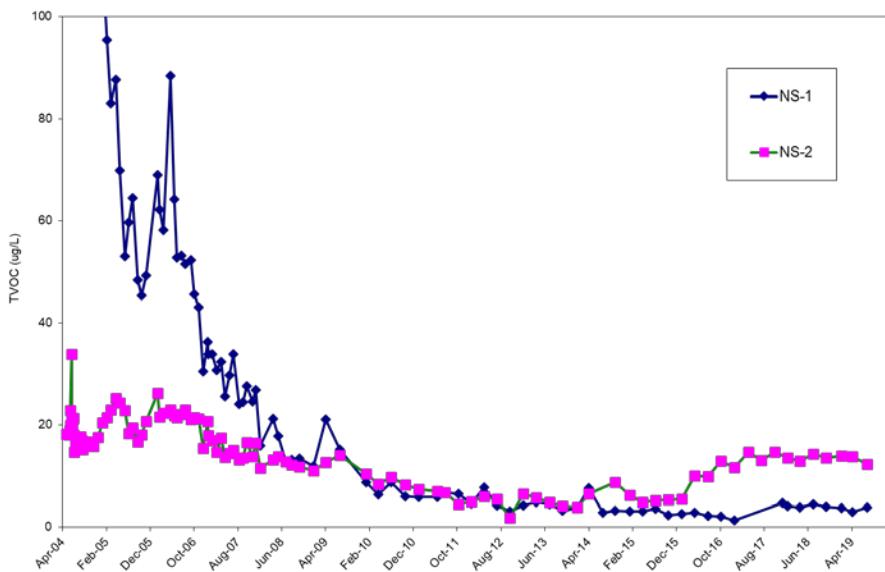
As shown on **Figure 3**, the current monitoring well TVOC concentrations within the capture zone of the two extraction wells for the North Street groundwater treatment system are below the 50 µg/L TVOC capture goal.

2.3.2 System Operational Data

During the standby period, which started in August 2013, the system was temporarily restarted twice due to rebound in TVOC concentrations in monitoring wells above the 50 µg/L capture goal. The system has not operated since August 2016. No rebound in VOC concentrations has been observed during the quarterly extraction well sampling since 2016¹. The TVOC concentration for each North Street extraction well over time is shown in **Chart 1** below. **Appendix 2** provides the VOC detections in the extraction wells since 2013. Since 2016, TVOC concentrations in the extraction well samples have remained below 15 µg/L. The maximum individual VOC concentration detected in extraction well samples since 2016 was PCE at 6.1 µg/L in NS-2 in April 2019. There have been no detections of tritium in the extraction wells since 2006.

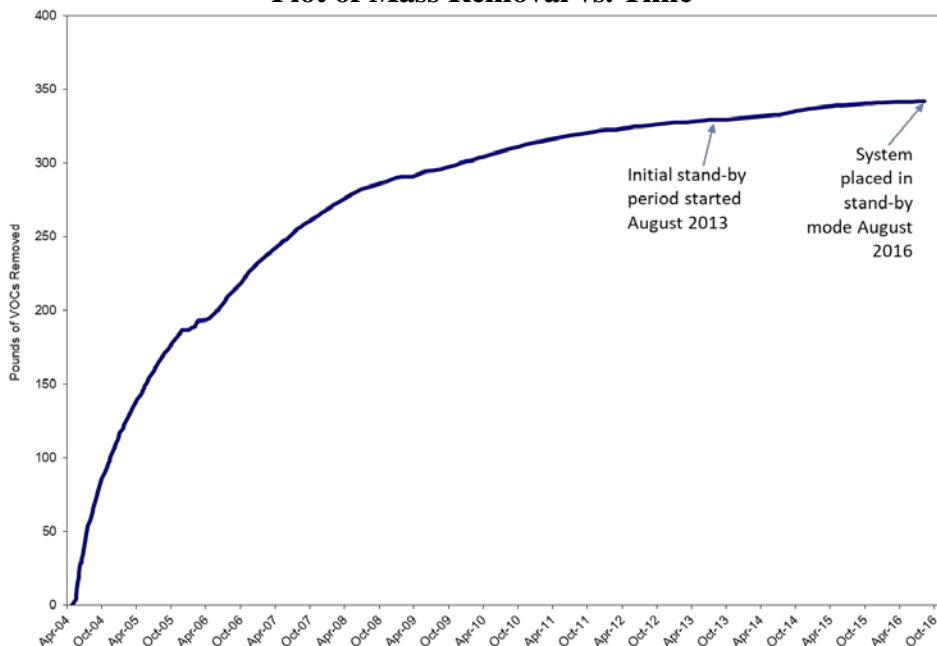
¹ Due to the nearby construction of the new North Street East extraction wells and system modification, the North Street system has been shut down and electrically locked-out since July 2019. Therefore, no North Street extraction well samples were obtained in October 2019 and January 2020. Sampling will resume once the construction is complete in March 2020.

Chart 1
North Street System Extraction Well TVOC Concentrations



The mass of VOCs removed from the aquifer was calculated using the TVOC concentrations observed in the extraction wells. Approximately 342 pounds of VOCs were removed from 2004 through 2016. **Chart 2** below shows the pounds of VOCs removed versus time, showing that there has been little removal of VOCs for the past few years, which indicates that an asymptote has been reached. Approximately ten pounds of the 342 total pounds removed occurred between 2013 and 2016. The low concentrations of VOCs in the groundwater and the low mass removal rate of the treatment system since 2013 indicate the treatment system has met the closure criteria.

Chart 2
Plot of Mass Removal vs. Time



2.4 System Closure Evaluation

The criteria for system closure as outlined in the North Street/North Street East Treatment System Operations and Maintenance Manual states:

“the system will remain in an operationally ready state for several years (two to five years). If contaminants remain low (either below the capture goal or an asymptote) for a given period of time, and current modeling supports the projection that MCLs (maximum contaminant levels) or an asymptote will be reached within the 30 years, DOE then submits a Petition for Closure of the treatment system to the regulators. Once approved for closure, the treatment system will be dismantled and groundwater monitoring will continue.”

The plume has been monitored for over six years since initial shutdown in August 2013. Although the system was temporarily restarted twice due to rebound in VOCs, the system has not operated since August 2016. During this time there has been no significant rebound in VOC concentrations in the monitoring or extraction wells. These data clearly show that this system has met all conditions outlined for system closure. TVOC concentrations in core monitoring wells have been below 50 µg/L for the past eight sampling rounds. The remaining VOCs are expected to attenuate to below MCLs before 2030.

The overall plume cleanup progress is demonstrated in **Figure 5**. This figure compares North Street plume depictions from prior to the start of cleanup in 1997 through 2019.

3.0 CONCLUSIONS

The following conclusions can be drawn regarding the North Street Groundwater Treatment System:

- TVOC concentrations in core monitoring well have been below the capture goal of 50 µg/L since November 2017.
- TVOC concentrations in the extraction wells have been below the capture goal since 2007.
- The system removed approximately 342 pounds of VOCs from the aquifer and is no longer removing significant mass. The mass removal curve shown on Chart 2 indicates that asymptotic conditions have been achieved.
- Any remaining contaminants in the plume will attenuate to below MCLs in the Upper Glacial and Magothy aquifers before the required 2030 and 2065 cleanup timeframes, respectively.
- This system has met all the criteria established in the North Street/North Street East Operation and Maintenance Manual for system closure.

4.0 RECOMMENDATIONS

Because the cleanup objectives have been achieved, it is recommended that the North Street Groundwater Treatment System be approved for closure. Seven of the 12 core monitoring wells are proposed for continued annual monitoring until the results for individual VOCs are consistently below MCLs. Sampling of the remaining 11 monitoring wells will be discontinued but the wells will be retained until the completion of the PFAS and 1,4-dioxane characterization at the BNL site.

The two extraction wells and system infrastructure (building, carbon units, etc) will also be retained until PFAS and 1,4-dioxane characterization is complete. The four recharge wells and the building will be used for the recently constructed North Street East Ethylene Dibromide Groundwater Treatment System. Any proposed changes to the monitoring program will be recommended in the annual Groundwater Status Report and documented in the BNL Environmental Monitoring Plan. **Appendix 3** summarizes the recommended disposition status for the monitoring, extraction, and recharge wells.

Until regulatory approval of this Petition for Closure is received, the system will remain in an operationally-ready mode, and the extraction and monitoring wells will continue to be sampled at its current frequency.

5.0 REFERENCES

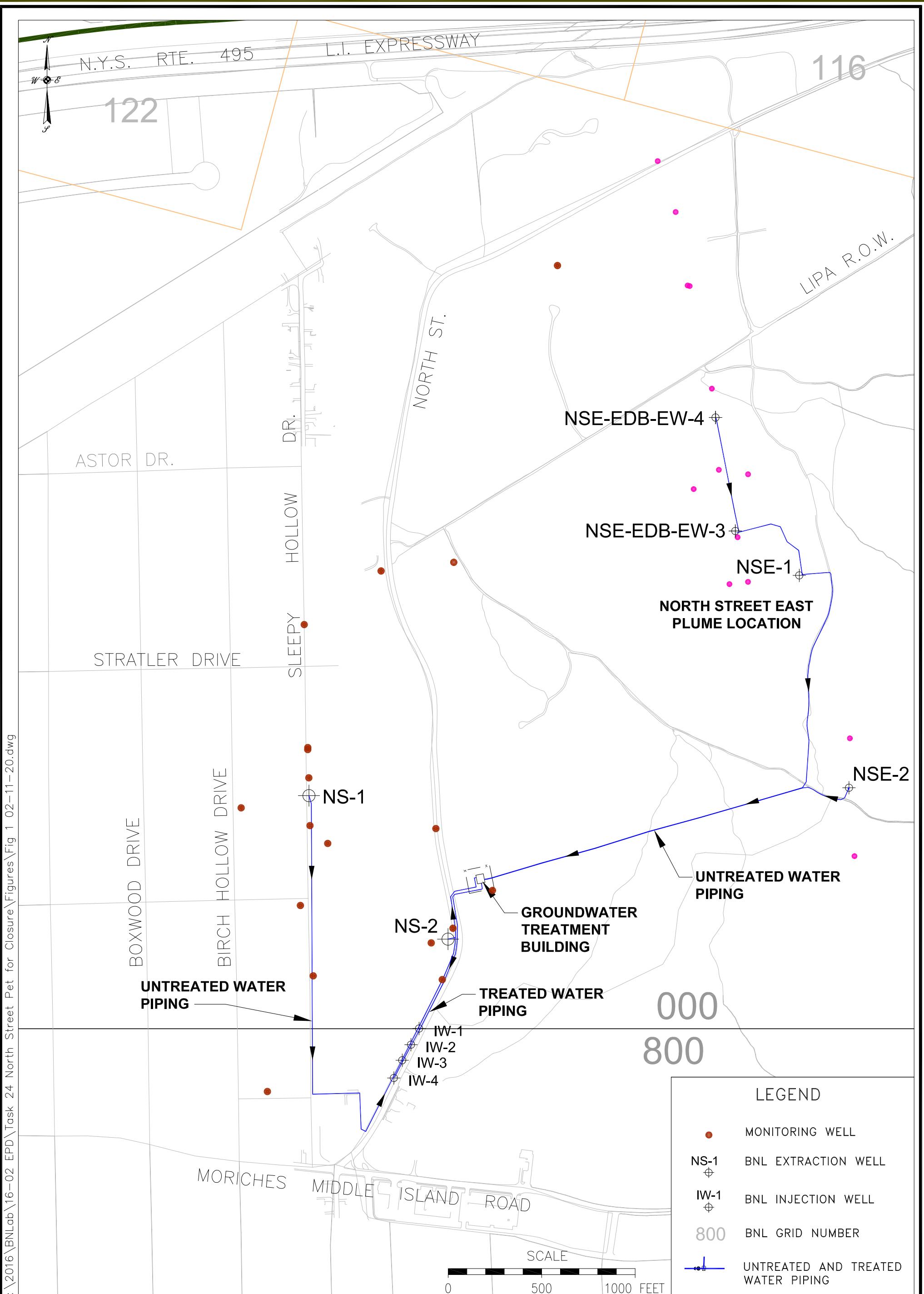
BNL 2000, Operable Unit III Record of Decision, June 2000

BNL 2004, Operation and Maintenance Manual Operable Unit III, North Street/North Street East Groundwater Treatment System, August 2004

BNL 2005, OU III Explanation of Significant Differences, May 2005

BNL 2013, Petition for Shutdown, OU III North Street Groundwater Treatment System, June 2013

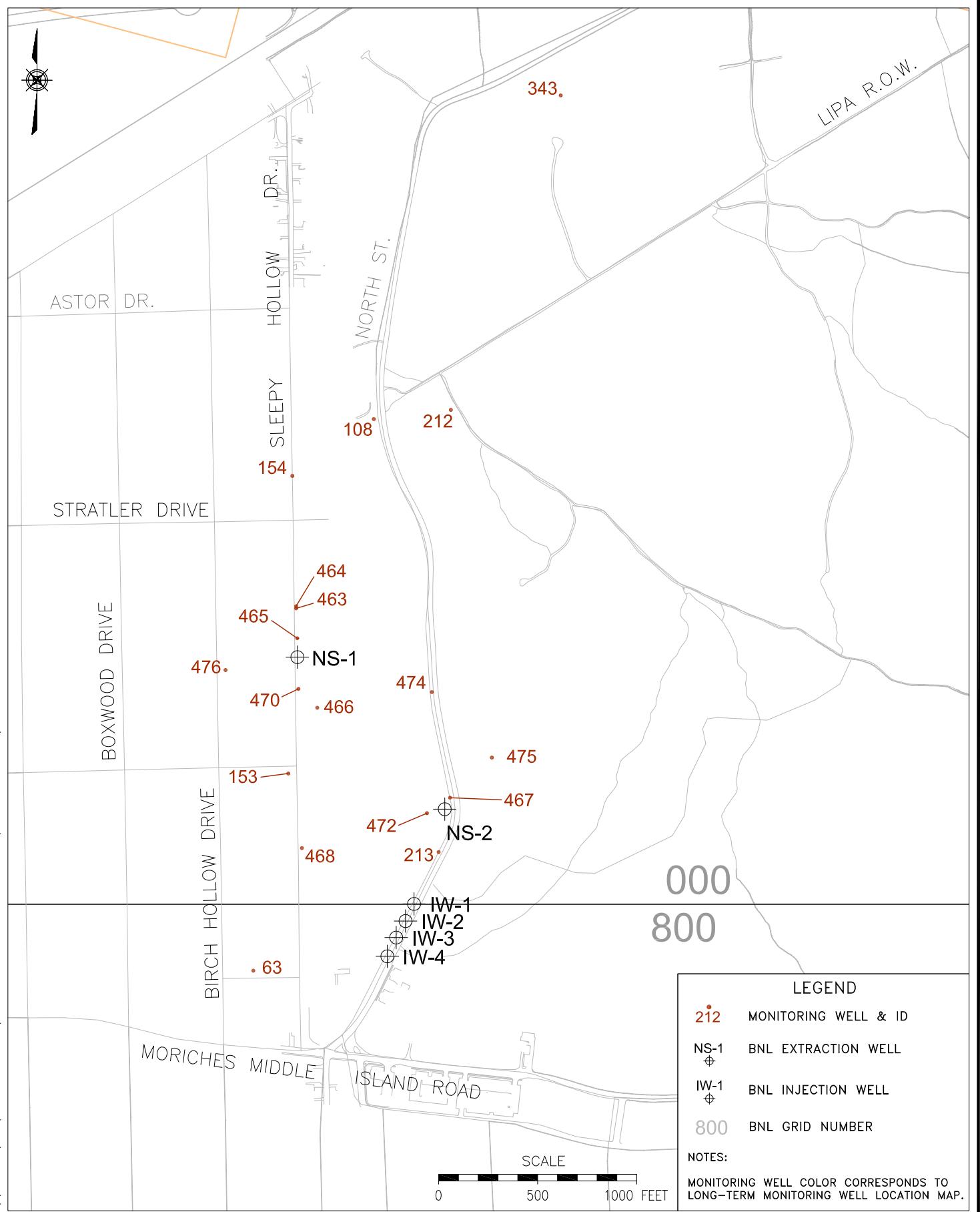
FIGURES



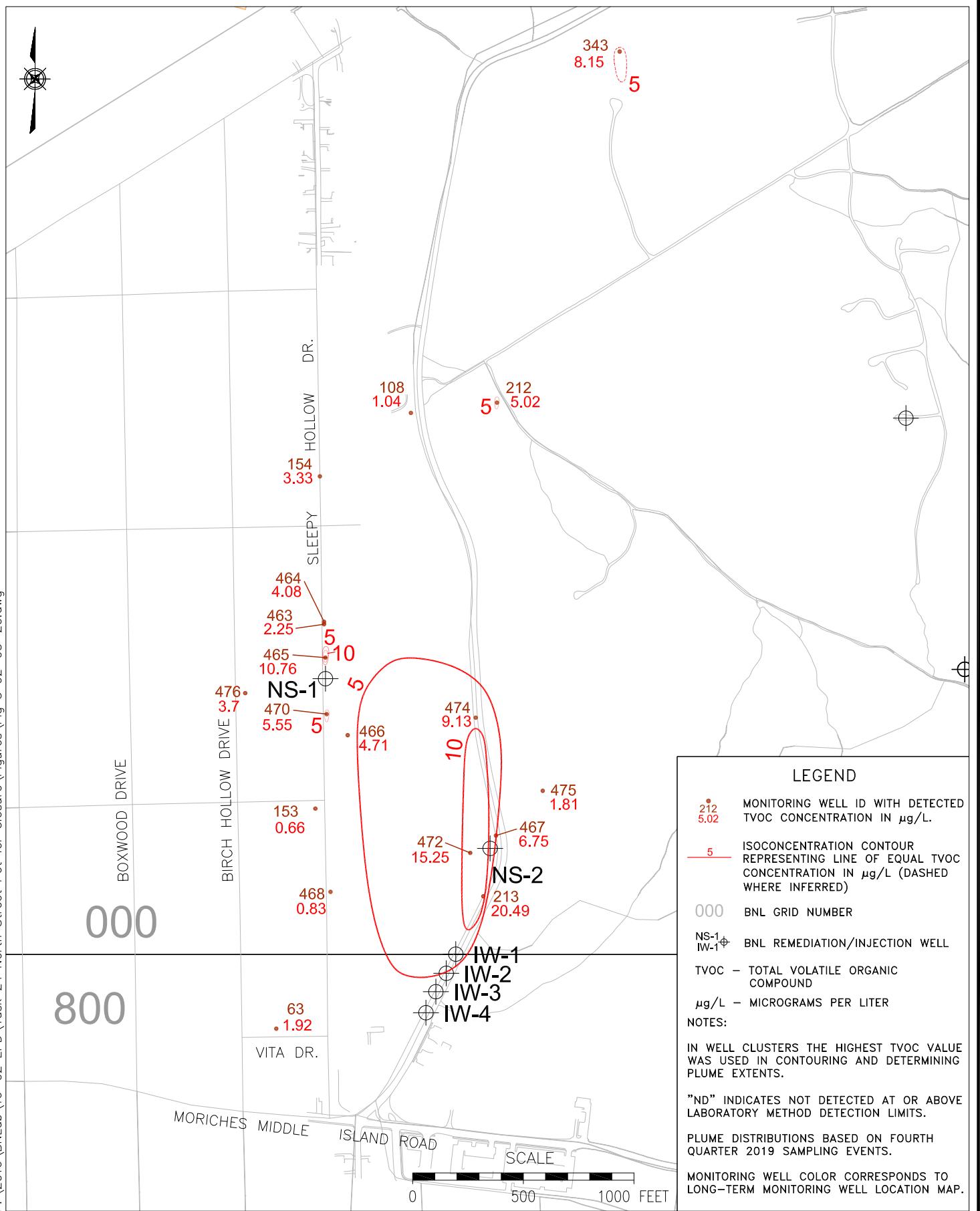
The logo for Brookhaven National Laboratory features the word "BROOKHAVEN" in large, bold, black capital letters at the top. Below it, "NATIONAL LABORATORY" is written in smaller, black capital letters. A thin, grey curved line starts from the bottom left, goes up and to the right, then down and to the right again, ending near the letter "E" in "BROOKHAVEN". A small red dot is positioned on the curve near the end.

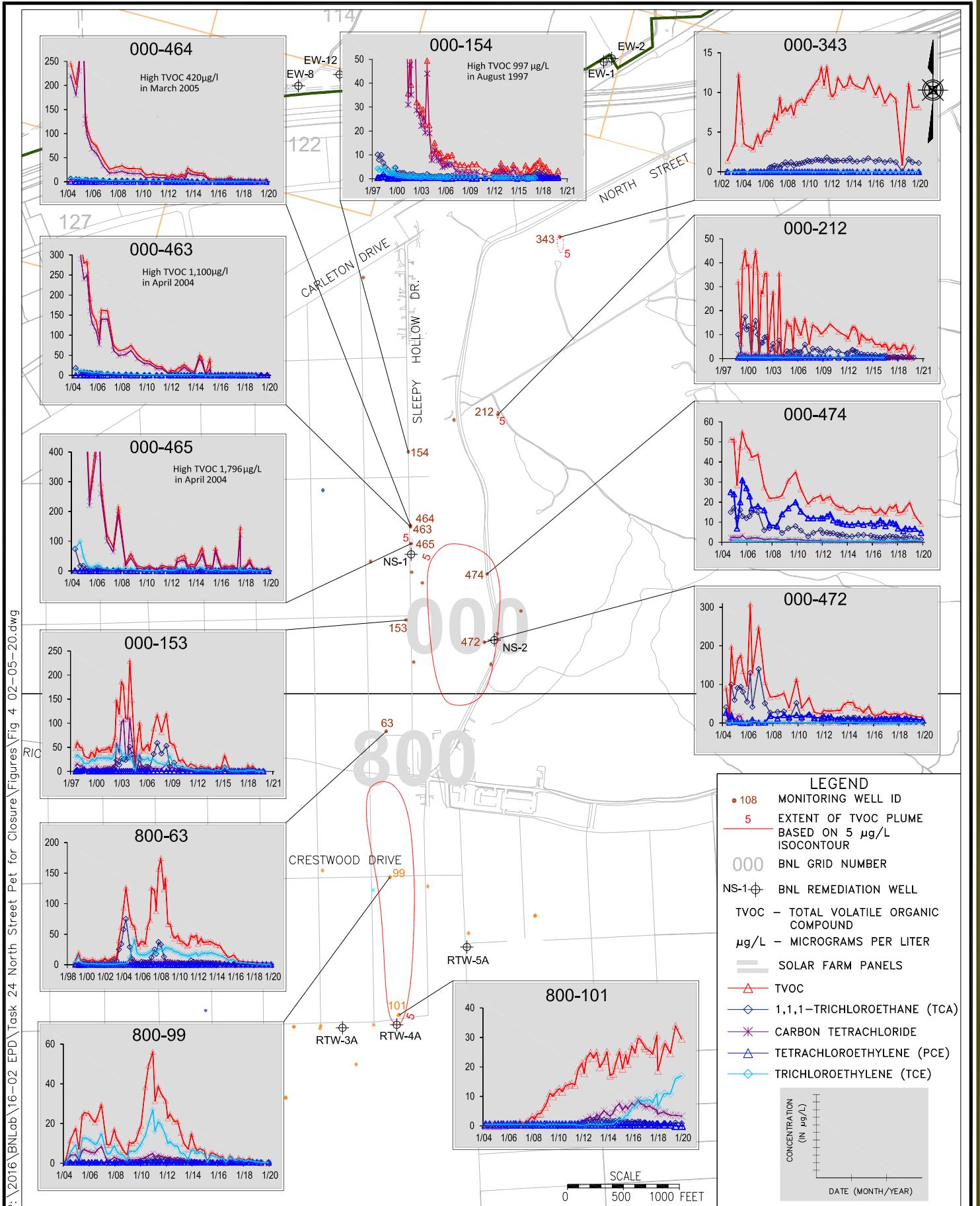
**TITLE: OU III NORTH STREET
AND NORTH STREET EAST
GROUNDWATER TREATMENT SYSTEM
LOCATION AND LAYOUT
OU III NORTH STREET PETITION FOR CLOSURE**

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OU III NORTH STREET
TVOC PLUME COMPARISON 1997-201

OU III NORTH STREET PETITION FOR CLOSURE

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APPENDIX 1
North Street VOC Detections in Monitoring Wells
2016 through 2019

Appendix 1
North Street Monitoring Well VOC Detections, 2016 through 2019

Site ID : 000-108

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,1-Trichloroethane	11/21/2019	0.17	0.5	UG/L	220	J
524.2 TVOC	11/21/2019	1.04	0	UG/L	220	
Chloroform	11/21/2019	0.44	0.5	UG/L	220	J
Tetrachloroethylene	11/21/2019	0.43	0.5	UG/L	220	J
524.2 TVOC	5/7/2019	1.12	0	UG/L	220	
Chloroform	5/7/2019	0.53	0.5	UG/L	220	
Tetrachloroethylene	5/7/2019	0.59	0.5	UG/L	220	
1,1,1-Trichloroethane	12/7/2018	0.7	0.5	UG/L	220	
1,1-Dichloroethane	12/7/2018	0.22	0.5	UG/L	220	J
1,1-Dichloroethylene	12/7/2018	0.13	0.5	UG/L	220	J
1,2-Dichloroethane	12/7/2018	0.38	0.5	UG/L	220	J
524.2 TVOC	12/7/2018	2.56	0	UG/L	220	
Carbon tetrachloride	12/7/2018	0.19	0.5	UG/L	220	J
Chloroform	12/7/2018	0.56	0.5	UG/L	220	
Tetrachloroethylene	12/7/2018	0.38	0.5	UG/L	220	J
1,1-Dichloroethane	8/20/2018	0.14	0.5	UG/L	220	J
524.2 TVOC	8/20/2018	0.14	0	UG/L	220	
1,1,1-Trichloroethane	6/5/2018	0.54	0.5	UG/L	220	
1,1-Dichloroethane	6/5/2018	0.42	0.5	UG/L	220	J
1,1-Dichloroethylene	6/5/2018	0.17	0.5	UG/L	220	J
1,2-Dichloroethane	6/5/2018	0.72	0.5	UG/L	220	
524.2 TVOC	6/5/2018	3	0	UG/L	220	
Chloroform	6/5/2018	0.37	0.5	UG/L	220	J
Tetrachloroethylene	6/5/2018	0.5	0.5	UG/L	220	
Trichloroethylene	6/5/2018	0.28	0.5	UG/L	220	J
1,1,1-Trichloroethane	1/22/2018	0.64	0.5	UG/L	220	
1,1-Dichloroethane	1/22/2018	1.1	0.5	UG/L	220	
1,1-Dichloroethylene	1/22/2018	0.17	0.5	UG/L	220	J
1,2-Dichloroethane	1/22/2018	0.38	0.5	UG/L	220	
524.2 TVOC	1/22/2018	3.42	0	UG/L	220	
Carbon tetrachloride	1/22/2018	0.2	0.5	UG/L	220	J
Chloroform	1/22/2018	0.5	0.5	UG/L	220	
Tetrachloroethylene	1/22/2018	0.43	0.5	UG/L	220	J
1,1,1-Trichloroethane	11/13/2017	0.87	0.5	UG/L	220	
1,1-Dichloroethane	11/13/2017	1.4	0.5	UG/L	220	
1,1-Dichloroethylene	11/13/2017	0.23	0.5	UG/L	220	J
1,2-Dichloroethane	11/13/2017	0.58	0.5	UG/L	220	
524.2 TVOC	11/13/2017	4.73	0	UG/L	220	
Carbon tetrachloride	11/13/2017	0.38	0.5	UG/L	220	J
Chloroform	11/13/2017	0.57	0.5	UG/L	220	

Appendix 1
North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Tetrachloroethylene	11/13/2017	0.4	0.5	UG/L	220	J
Trichloroethylene	11/13/2017	0.3	0.5	UG/L	220	J
1,1,1-Trichloroethane	8/16/2017	0.78	0.5	UG/L	220	
1,1-Dichloroethane	8/16/2017	0.78	0.5	UG/L	220	
1,1-Dichloroethylene	8/16/2017	0.21	0.5	UG/L	220	J
1,2-Dichloroethane	8/16/2017	0.75	0.5	UG/L	220	
524.2 TVOC	8/16/2017	4.23	0	UG/L	220	
Carbon tetrachloride	8/16/2017	0.33	0.5	UG/L	220	J
Chloroform	8/16/2017	0.51	0.5	UG/L	220	
Tetrachloroethylene	8/16/2017	0.58	0.5	UG/L	220	
Trichloroethylene	8/16/2017	0.29	0.5	UG/L	220	J
1,1,1-Trichloroethane	5/9/2017	0.65	0.5	UG/L	220	
1,1-Dichloroethane	5/9/2017	0.7	0.5	UG/L	220	
1,1-Dichloroethylene	5/9/2017	0.17	0.5	UG/L	220	J
1,2-Dichloroethane	5/9/2017	0.61	0.5	UG/L	220	
524.2 TVOC	5/9/2017	3.65	0	UG/L	220	
Carbon tetrachloride	5/9/2017	0.25	0.5	UG/L	220	J
Chloroform	5/9/2017	0.48	0.5	UG/L	220	J
Tetrachloroethylene	5/9/2017	0.51	0.5	UG/L	220	
Trichloroethylene	5/9/2017	0.28	0.5	UG/L	220	J
1,1,1-Trichloroethane	1/24/2017	1	0.5	UG/L	220	
1,1-Dichloroethane	1/24/2017	0.85	0.5	UG/L	220	
1,1-Dichloroethylene	1/24/2017	0.25	0.5	UG/L	220	J
1,2-Dichloroethane	1/24/2017	1.1	0.5	UG/L	220	
524.2 TVOC	1/24/2017	5.13	0	UG/L	220	
Carbon tetrachloride	1/24/2017	0.43	0.5	UG/L	220	J
Chloroform	1/24/2017	0.57	0.5	UG/L	220	
Tetrachloroethylene	1/24/2017	0.62	0.5	UG/L	220	
Trichloroethylene	1/24/2017	0.31	0.5	UG/L	220	J
1,1,1-Trichloroethane	11/15/2016	1.8	0.5	UG/L	220	
1,1-Dichloroethane	11/15/2016	1.9	0.5	UG/L	220	
1,1-Dichloroethylene	11/15/2016	0.54	0.5	UG/L	220	
1,2-Dichloroethane	11/15/2016	2.1	0.5	UG/L	220	
524.2 TVOC	11/15/2016	9.05	0	UG/L	220	
Carbon tetrachloride	11/15/2016	0.7	0.5	UG/L	220	
Chloroform	11/15/2016	0.9	0.5	UG/L	220	
Tetrachloroethylene	11/15/2016	0.66	0.5	UG/L	220	
Trichloroethylene	11/15/2016	0.45	0.5	UG/L	220	J
1,1,1-Trichloroethane	8/8/2016	2.8	0.5	UG/L	220	
1,1-Dichloroethane	8/8/2016	3	0.5	UG/L	220	
1,1-Dichloroethylene	8/8/2016	0.83	0.5	UG/L	220	
1,2-Dichloroethane	8/8/2016	2.5	0.5	UG/L	220	

Appendix 1
North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
524.2 TVOC	8/8/2016	12.76	0	UG/L	220	
Carbon tetrachloride	8/8/2016	0.89	0.5	UG/L	220	
Chloroform	8/8/2016	1.2	0.5	UG/L	220	
Dichlorodifluoromethane	8/8/2016	0.14	0.5	UG/L	220	J
Tetrachloroethylene	8/8/2016	0.84	0.5	UG/L	220	
Trichloroethylene	8/8/2016	0.56	0.5	UG/L	220	
1,1,1-Trichloroethane	5/3/2016	2.6	0.5	UG/L	220	
1,1-Dichloroethane	5/3/2016	3.8	0.5	UG/L	220	
1,1-Dichloroethylene	5/3/2016	0.69	0.5	UG/L	220	
1,2-Dichloroethane	5/3/2016	1.7	0.5	UG/L	220	
524.2 TVOC	5/3/2016	11.97	0	UG/L	220	
Carbon tetrachloride	5/3/2016	0.7	0.5	UG/L	220	
Chloroform	5/3/2016	1.2	0.5	UG/L	220	
Tetrachloroethylene	5/3/2016	0.78	0.5	UG/L	220	
Trichloroethylene	5/3/2016	0.5	0.5	UG/L	220	
1,1,1-Trichloroethane	2/23/2016	2.2	0.5	UG/L	220	
1,1-Dichloroethane	2/23/2016	3.1	0.5	UG/L	220	
1,1-Dichloroethylene	2/23/2016	0.61	0.5	UG/L	220	
1,2-Dichloroethane	2/23/2016	1.8	0.5	UG/L	220	
524.2 TVOC	2/23/2016	10.44	0	UG/L	220	
Carbon tetrachloride	2/23/2016	0.48	0.5	UG/L	220	J
Chloroform	2/23/2016	1	0.5	UG/L	220	
Dichlorodifluoromethane	2/23/2016	0.1	0.5	UG/L	220	J
Tetrachloroethylene	2/23/2016	0.61	0.5	UG/L	220	
Trichloroethylene	2/23/2016	0.54	0.5	UG/L	220	

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
524.2 TVOC	11/18/2019	0.66	0	UG/L	200	
Carbon tetrachloride	11/18/2019	0.26	0.5	UG/L	200	J
Trichloroethylene	11/18/2019	0.4	0.5	UG/L	200	J
524.2 TVOC	5/7/2019	0	0	UG/L	200	
1,1,1-Trichloroethane	12/6/2018	0.5	0.5	UG/L	200	
1,1,2,2-Tetrachloroethane	12/6/2018	0.42	0.5	UG/L	200	J
1,1-Dichloroethylene	12/6/2018	0.17	0.5	UG/L	200	J
524.2 TVOC	12/6/2018	2.31	0	UG/L	200	
Carbon tetrachloride	12/6/2018	0.41	0.5	UG/L	200	J
Trichloroethylene	12/6/2018	0.81	0.5	UG/L	200	
1,1,1-Trichloroethane	8/17/2018	2.3	0.5	UG/L	200	
1,1,2,2-Tetrachloroethane	8/17/2018	1.9	0.5	UG/L	200	
1,1-Dichloroethane	8/17/2018	0.21	0.5	UG/L	200	J

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North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1-Dichloroethylene	8/17/2018	0.91	0.5	UG/L	200	
524.2 TVOC	8/17/2018	11.67	0	UG/L	200	
Carbon tetrachloride	8/17/2018	1.8	0.5	UG/L	200	
Chloroform	8/17/2018	0.85	0.5	UG/L	200	
Trichloroethylene	8/17/2018	3.7	0.5	UG/L	200	
1,1,1-Trichloroethane	5/31/2018	0.72	0.5	UG/L	200	
1,1,2,2-Tetrachloroethane	5/31/2018	0.77	0.5	UG/L	200	
1,1-Dichloroethylene	5/31/2018	0.24	0.5	UG/L	200	J
1,2,4-Trichlorobenzene	5/31/2018	0.13	0.5	UG/L	200	J
524.2 TVOC	5/31/2018	4.46	0	UG/L	200	
Carbon tetrachloride	5/31/2018	0.55	0.5	UG/L	200	
Chloroform	5/31/2018	0.56	0.5	UG/L	200	
Methyl tert-butyl ether	5/31/2018	0.19	0.5	UG/L	200	J
Trichloroethylene	5/31/2018	1.3	0.5	UG/L	200	
1,1,1-Trichloroethane	1/23/2018	2.8	0.5	UG/L	200	
1,1,2,2-Tetrachloroethane	1/23/2018	2.2	0.5	UG/L	200	
1,1-Dichloroethylene	1/23/2018	1	0.5	UG/L	200	
524.2 TVOC	1/23/2018	12.7	0	UG/L	200	
Carbon tetrachloride	1/23/2018	2	0.5	UG/L	200	
Chloroform	1/23/2018	1.1	0.5	UG/L	200	
Trichloroethylene	1/23/2018	3.6	0.5	UG/L	200	
1,1,1-Trichloroethane	11/14/2017	0.32	0.5	UG/L	200	J
1,1,2,2-Tetrachloroethane	11/14/2017	0.32	0.5	UG/L	200	J
1,1-Dichloroethylene	11/14/2017	0.1	0.5	UG/L	200	J
524.2 TVOC	11/14/2017	2.06	0	UG/L	200	
Carbon tetrachloride	11/14/2017	0.29	0.5	UG/L	200	J
Chloroform	11/14/2017	0.44	0.5	UG/L	200	J
Trichloroethylene	11/14/2017	0.59	0.5	UG/L	200	
1,1,1-Trichloroethane	8/15/2017	0.32	0.5	UG/L	195	J
1,1,2,2-Tetrachloroethane	8/15/2017	0.23	0.5	UG/L	195	J
524.2 TVOC	8/15/2017	1.69	0	UG/L	195	
Carbon tetrachloride	8/15/2017	0.25	0.5	UG/L	195	J
Chloroform	8/15/2017	0.23	0.5	UG/L	195	J
Trichloroethylene	8/15/2017	0.66	0.5	UG/L	195	
1,1,1-Trichloroethane	5/8/2017	1	0.5	UG/L	200	
1,1,2,2-Tetrachloroethane	5/8/2017	0.79	0.5	UG/L	200	
1,1-Dichloroethylene	5/8/2017	0.36	0.5	UG/L	200	J
524.2 TVOC	5/8/2017	4.93	0	UG/L	200	
Carbon tetrachloride	5/8/2017	0.73	0.5	UG/L	200	
Chloroform	5/8/2017	0.55	0.5	UG/L	200	
Trichloroethylene	5/8/2017	1.5	0.5	UG/L	200	
1,1,1-Trichloroethane	1/24/2017	0.44	0.5	UG/L	200	J

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North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1-Dichloroethylene	1/24/2017	0.11	0.5	UG/L	200	J
524.2 TVOC	1/24/2017	2.22	0	UG/L	200	
Carbon tetrachloride	1/24/2017	0.51	0.5	UG/L	200	
Chloroform	1/24/2017	0.2	0.5	UG/L	200	J
Trichloroethylene	1/24/2017	0.96	0.5	UG/L	200	
1,1,1-Trichloroethane	11/14/2016	0.6	0.5	UG/L	200	
1,1,2,2-Tetrachloroethane	11/14/2016	0.36	0.5	UG/L	200	J
1,1-Dichloroethylene	11/14/2016	0.17	0.5	UG/L	200	J
524.2 TVOC	11/14/2016	3.24	0	UG/L	200	
Carbon tetrachloride	11/14/2016	0.57	0.5	UG/L	200	
Chloroform	11/14/2016	0.24	0.5	UG/L	200	J
Trichloroethylene	11/14/2016	1.3	0.5	UG/L	200	
1,1,1-Trichloroethane	7/28/2016	0.43	0.5	UG/L	200	J
1,1,2,2-Tetrachloroethane	7/28/2016	0.27	0.5	UG/L	200	J
1,1-Dichloroethylene	7/28/2016	0.14	0.5	UG/L	200	J
524.2 TVOC	7/28/2016	2.41	0	UG/L	200	
Carbon tetrachloride	7/28/2016	0.37	0.5	UG/L	200	J
Chloroform	7/28/2016	0.26	0.5	UG/L	200	J
Trichloroethylene	7/28/2016	0.94	0.5	UG/L	200	
1,1,1-Trichloroethane	5/2/2016	0.48	0.5	UG/L	200	J
1,1,2,2-Tetrachloroethane	5/2/2016	0.46	0.5	UG/L	200	J
1,1-Dichloroethylene	5/2/2016	0.18	0.5	UG/L	200	J
524.2 TVOC	5/2/2016	2.72	0	UG/L	200	
Carbon tetrachloride	5/2/2016	0.32	0.5	UG/L	200	J
Chloroform	5/2/2016	0.46	0.5	UG/L	200	J
Trichloroethylene	5/2/2016	0.82	0.5	UG/L	200	
1,1,1-Trichloroethane	2/22/2016	0.64	0.5	UG/L	200	
1,1,2,2-Tetrachloroethane	2/22/2016	0.64	0.5	UG/L	200	
1,1-Dichloroethylene	2/22/2016	0.22	0.5	UG/L	200	J
524.2 TVOC	2/22/2016	3.57	0	UG/L	200	
Carbon tetrachloride	2/22/2016	0.53	0.5	UG/L	200	
Chloroform	2/22/2016	0.37	0.5	UG/L	200	J
Methyl bromide	2/22/2016	0.13	0.5	UG/L	200	J
Tetrachloroethylene	2/22/2016	0.19	0.5	UG/L	200	J
Trichloroethylene	2/22/2016	0.85	0.5	UG/L	200	

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,1-Trichloroethane	11/15/2019	0.55	0.5	UG/L	198	
1,1-Dichloroethane	11/15/2019	0.28	0.5	UG/L	198	J
1,1-Dichloroethylene	11/15/2019	0.16	0.5	UG/L	198	J

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
524.2 TVOC	11/15/2019	3.33	0	UG/L	198	
Carbon tetrachloride	11/15/2019	0.81	0.5	UG/L	198	
Chloroform	11/15/2019	1.1	0.5	UG/L	198	
Trichloroethylene	11/15/2019	0.43	0.5	UG/L	198	J
524.2 TVOC	5/7/2019	0.95	0	UG/L	198	
Chloroform	5/7/2019	0.95	0.5	UG/L	198	
1,1,1-Trichloroethane	12/6/2018	0.88	0.5	UG/L	198	
1,1-Dichloroethylene	12/6/2018	0.32	0.5	UG/L	198	J
524.2 TVOC	12/6/2018	2.78	0	UG/L	198	
Carbon tetrachloride	12/6/2018	0.47	0.5	UG/L	198	J
Chloroform	12/6/2018	0.86	0.5	UG/L	198	
Trichloroethylene	12/6/2018	0.25	0.5	UG/L	198	J
1,1,1-Trichloroethane	8/17/2018	0.72	0.5	UG/L	198	
1,1-Dichloroethylene	8/17/2018	0.45	0.5	UG/L	198	J
524.2 TVOC	8/17/2018	2.69	0	UG/L	198	
Carbon tetrachloride	8/17/2018	0.39	0.5	UG/L	198	J
Chloroform	8/17/2018	0.87	0.5	UG/L	198	
Trichloroethylene	8/17/2018	0.26	0.5	UG/L	198	J
1,1,1-Trichloroethane	6/1/2018	1.3	0.5	UG/L	198	
1,1-Dichloroethylene	6/1/2018	0.56	0.5	UG/L	198	
524.2 TVOC	6/1/2018	4.89	0	UG/L	198	
Carbon tetrachloride	6/1/2018	1.6	0.5	UG/L	198	
Chloroform	6/1/2018	1.1	0.5	UG/L	198	
Trichloroethylene	6/1/2018	0.33	0.5	UG/L	198	J
1,1,1-Trichloroethane	1/23/2018	2.5	0.5	UG/L	198	
1,1-Dichloroethylene	1/23/2018	1.3	0.5	UG/L	198	
524.2 TVOC	1/23/2018	5.34	0	UG/L	198	
Carbon tetrachloride	1/23/2018	0.5	0.5	UG/L	198	
Chloroform	1/23/2018	0.71	0.5	UG/L	198	
Trichloroethylene	1/23/2018	0.33	0.5	UG/L	198	J
1,1,1-Trichloroethane	11/14/2017	1.9	0.5	UG/L	198	
1,1-Dichloroethane	11/14/2017	0.087	0.5	UG/L	198	J
1,1-Dichloroethylene	11/14/2017	0.95	0.5	UG/L	198	
524.2 TVOC	11/14/2017	4.787	0	UG/L	198	
Carbon tetrachloride	11/14/2017	0.66	0.5	UG/L	198	
Chloroform	11/14/2017	0.92	0.5	UG/L	198	
Trichloroethylene	11/14/2017	0.27	0.5	UG/L	198	J
1,1,1-Trichloroethane	8/16/2017	2.6	0.5	UG/L	198	
1,1-Dichloroethane	8/16/2017	0.12	0.5	UG/L	198	J
1,1-Dichloroethylene	8/16/2017	1.2	0.5	UG/L	198	
524.2 TVOC	8/16/2017	7.61	0	UG/L	198	
Carbon tetrachloride	8/16/2017	1.9	0.5	UG/L	198	

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Chloroform	8/16/2017	1.5	0.5	UG/L	198	
Trichloroethylene	8/16/2017	0.29	0.5	UG/L	198	J
1,1,1-Trichloroethane	5/8/2017	3	0.5	UG/L	198	
1,1-Dichloroethane	5/8/2017	0.098	0.5	UG/L	198	J
1,1-Dichloroethylene	5/8/2017	1.6	0.5	UG/L	198	
524.2 TVOC	5/8/2017	6.478	0	UG/L	198	
Carbon tetrachloride	5/8/2017	0.68	0.5	UG/L	198	
Chloroform	5/8/2017	0.81	0.5	UG/L	198	
Trichloroethylene	5/8/2017	0.29	0.5	UG/L	198	J
1,1,1-Trichloroethane	1/24/2017	2.5	0.5	UG/L	198	
1,1-Dichloroethane	1/24/2017	0.096	0.5	UG/L	198	J
1,1-Dichloroethylene	1/24/2017	1.4	0.5	UG/L	198	
524.2 TVOC	1/24/2017	5.716	0	UG/L	198	
Carbon tetrachloride	1/24/2017	0.66	0.5	UG/L	198	
Chloroform	1/24/2017	0.76	0.5	UG/L	198	
Trichloroethylene	1/24/2017	0.3	0.5	UG/L	198	J
1,1,1-Trichloroethane	11/14/2016	1.8	0.5	UG/L	198	
1,1-Dichloroethane	11/14/2016	0.074	0.5	UG/L	198	J
1,1-Dichloroethylene	11/14/2016	1.2	0.5	UG/L	198	
524.2 TVOC	11/14/2016	5.154	0	UG/L	198	
Carbon tetrachloride	11/14/2016	0.96	0.5	UG/L	198	
Chloroform	11/14/2016	0.77	0.5	UG/L	198	
Trichloroethylene	11/14/2016	0.35	0.5	UG/L	198	J
1,1,1-Trichloroethane	7/28/2016	1	0.5	UG/L	198	
1,1-Dichloroethane	7/28/2016	0.074	0.5	UG/L	198	J
1,1-Dichloroethylene	7/28/2016	0.78	0.5	UG/L	198	
524.2 TVOC	7/28/2016	3.404	0	UG/L	198	
Carbon tetrachloride	7/28/2016	0.64	0.5	UG/L	198	
Chloroform	7/28/2016	0.57	0.5	UG/L	198	
Trichloroethylene	7/28/2016	0.34	0.5	UG/L	198	J
1,1,1-Trichloroethane	5/3/2016	1.1	0.5	UG/L	198	
1,1-Dichloroethylene	5/3/2016	0.62	0.5	UG/L	198	
524.2 TVOC	5/3/2016	3.24	0	UG/L	198	
Carbon tetrachloride	5/3/2016	0.63	0.5	UG/L	198	
Chloroform	5/3/2016	0.58	0.5	UG/L	198	
Trichloroethylene	5/3/2016	0.31	0.5	UG/L	198	J
1,1,1-Trichloroethane	2/23/2016	1.3	0.5	UG/L	198	
1,1-Dichloroethylene	2/23/2016	0.86	0.5	UG/L	198	
524.2 TVOC	2/23/2016	3.93	0	UG/L	198	
Carbon tetrachloride	2/23/2016	0.67	0.5	UG/L	198	
Chloroform	2/23/2016	0.49	0.5	UG/L	198	J
Tetrachloroethylene	2/23/2016	0.27	0.5	UG/L	198	J

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Trichloroethylene	2/23/2016	0.34	0.5	UG/L	198	J

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,1-Trichloroethane	11/21/2019	0.35	0.5	UG/L	205	J
524.2 TVOC	11/21/2019	5.02	0	UG/L	205	
Chloroform	11/21/2019	2.4	0.5	UG/L	205	
Tetrachloroethylene	11/21/2019	2	0.5	UG/L	205	
Trichloroethylene	11/21/2019	0.27	0.5	UG/L	205	J
524.2 TVOC	5/8/2019	1.91	0	UG/L	205	
Chloroform	5/8/2019	0.91	0.5	UG/L	205	
Tetrachloroethylene	5/8/2019	1	0.5	UG/L	205	
524.2 TVOC	5/8/2019	0	0	UG/L	0	
1,1,1-Trichloroethane	12/10/2018	0.53	0.5	UG/L	205	
1,1-Dichloroethylene	12/10/2018	0.15	0.5	UG/L	205	J
524.2 TVOC	12/10/2018	5.28	0	UG/L	205	
Chloroform	12/10/2018	2.6	0.5	UG/L	205	
Tetrachloroethylene	12/10/2018	2	0.5	UG/L	205	
1,1,1-Trichloroethane	8/20/2018	0.47	0.5	UG/L	205	J
524.2 TVOC	8/20/2018	5.67	0	UG/L	205	
Chloroform	8/20/2018	3	0.5	UG/L	205	
Tetrachloroethylene	8/20/2018	2.2	0.5	UG/L	205	
1,1,1-Trichloroethane	6/6/2018	0.79	0.5	UG/L	205	
1,1-Dichloroethylene	6/6/2018	0.2	0.5	UG/L	205	J
524.2 TVOC	6/6/2018	3.85	0	UG/L	205	
Carbon tetrachloride	6/6/2018	0.26	0.5	UG/L	205	J
Chloroform	6/6/2018	1.4	0.5	UG/L	205	
Tetrachloroethylene	6/6/2018	1.2	0.5	UG/L	205	
1,1,1-Trichloroethane	1/22/2018	0.47	0.5	UG/L	205	J
524.2 TVOC	1/22/2018	4.27	0	UG/L	205	
Chloroform	1/22/2018	2	0.5	UG/L	205	
Tetrachloroethylene	1/22/2018	1.8	0.5	UG/L	205	
1,1,1-Trichloroethane	11/13/2017	0.38	0.5	UG/L	205	J
1,1-Dichloroethylene	11/13/2017	0.12	0.5	UG/L	205	J
524.2 TVOC	11/13/2017	3.7	0	UG/L	205	
Chloroform	11/13/2017	1.5	0.5	UG/L	205	
Tetrachloroethylene	11/13/2017	1.7	0.5	UG/L	205	
1,1,1-Trichloroethane	8/16/2017	0.72	0.5	UG/L	205	
1,1-Dichloroethylene	8/16/2017	0.25	0.5	UG/L	205	J
524.2 TVOC	8/16/2017	5.81	0	UG/L	205	
Carbon tetrachloride	8/16/2017	0.18	0.5	UG/L	205	J

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Chloroform	8/16/2017	2.2	0.5	UG/L	205	
Tetrachloroethylene	8/16/2017	2.2	0.5	UG/L	205	
Trichloroethylene	8/16/2017	0.26	0.5	UG/L	205	J
1,1,1-Trichloroethane	5/9/2017	0.69	0.5	UG/L	205	
1,1-Dichloroethylene	5/9/2017	0.26	0.5	UG/L	205	J
524.2 TVOC	5/9/2017	5.35	0	UG/L	205	
Carbon tetrachloride	5/9/2017	0.2	0.5	UG/L	205	J
Chloroform	5/9/2017	1.7	0.5	UG/L	205	
Tetrachloroethylene	5/9/2017	2.2	0.5	UG/L	205	
Trichloroethylene	5/9/2017	0.3	0.5	UG/L	205	J
1,1,1-Trichloroethane	1/25/2017	0.47	0.5	UG/L	205	J
1,1-Dichloroethylene	1/25/2017	0.12	0.5	UG/L	205	J
524.2 TVOC	1/25/2017	3.69	0	UG/L	205	
Chloroform	1/25/2017	1.1	0.5	UG/L	205	
Tetrachloroethylene	1/25/2017	2	0.5	UG/L	205	
1,1,1-Trichloroethane	11/15/2016	0.39	0.5	UG/L	205	J
1,1-Dichloroethylene	11/15/2016	0.12	0.5	UG/L	205	J
524.2 TVOC	11/15/2016	3.28	0	UG/L	205	
Chloroform	11/15/2016	0.97	0.5	UG/L	205	
Tetrachloroethylene	11/15/2016	1.8	0.5	UG/L	205	
1,1,1-Trichloroethane	8/8/2016	0.96	0.5	UG/L	205	
1,1-Dichloroethylene	8/8/2016	0.31	0.5	UG/L	205	J
524.2 TVOC	8/8/2016	5.8	0	UG/L	205	
Carbon tetrachloride	8/8/2016	0.24	0.5	UG/L	205	J
Chloroform	8/8/2016	1.6	0.5	UG/L	205	
Tetrachloroethylene	8/8/2016	2.4	0.5	UG/L	205	
Trichloroethylene	8/8/2016	0.29	0.5	UG/L	205	J
1,1,1-Trichloroethane	5/4/2016	1.2	0.5	UG/L	205	
1,1-Dichloroethylene	5/4/2016	0.28	0.5	UG/L	205	J
524.2 TVOC	5/4/2016	6.04	0	UG/L	205	
Carbon tetrachloride	5/4/2016	0.3	0.5	UG/L	205	J
Chloroform	5/4/2016	1.6	0.5	UG/L	205	
Tetrachloroethylene	5/4/2016	2.3	0.5	UG/L	205	
Trichloroethylene	5/4/2016	0.36	0.5	UG/L	205	J
1,1,1-Trichloroethane	2/23/2016	0.79	0.5	UG/L	205	
1,1-Dichloroethylene	2/23/2016	0.27	0.5	UG/L	205	J
524.2 TVOC	2/23/2016	4.72	0	UG/L	205	
Carbon tetrachloride	2/23/2016	0.19	0.5	UG/L	205	J
Chloroform	2/23/2016	1.2	0.5	UG/L	205	
Tetrachloroethylene	2/23/2016	2	0.5	UG/L	205	
Trichloroethylene	2/23/2016	0.27	0.5	UG/L	205	J

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,1-Trichloroethane	11/20/2019	9.1	0.5	UG/L	195	
1,1-Dichloroethane	11/20/2019	0.39	0.5	UG/L	195	J
1,1-Dichloroethylene	11/20/2019	4.3	0.5	UG/L	195	
524.2 TVOC	11/20/2019	20.49	0	UG/L	195	
Carbon tetrachloride	11/20/2019	1	0.5	UG/L	195	
Chloroform	11/20/2019	2.9	0.5	UG/L	195	
Tetrachloroethylene	11/20/2019	2.8	0.5	UG/L	195	
1,1,1-Trichloroethane	5/8/2019	9.8	0.5	UG/L	195	
1,1-Dichloroethylene	5/8/2019	4.5	0.5	UG/L	195	
524.2 TVOC	5/8/2019	22.2	0	UG/L	195	
Carbon tetrachloride	5/8/2019	0.8	0.5	UG/L	195	
Chloroform	5/8/2019	2.8	0.5	UG/L	195	
Tetrachloroethylene	5/8/2019	4.3	0.5	UG/L	195	
1,1,1-Trichloroethane	12/7/2018	13	0.5	UG/L	195	
1,1-Dichloroethane	12/7/2018	0.69	0.5	UG/L	195	
1,1-Dichloroethylene	12/7/2018	6.7	0.5	UG/L	195	
524.2 TVOC	12/7/2018	33.38	0	UG/L	195	
Carbon tetrachloride	12/7/2018	0.99	0.5	UG/L	195	
Chloroform	12/7/2018	3	0.5	UG/L	195	
Tetrachloroethylene	12/7/2018	9	0.5	UG/L	195	
1,1,1-Trichloroethane	6/5/2018	9.9	0.5	UG/L	195	
1,1-Dichloroethane	6/5/2018	0.62	0.5	UG/L	195	
1,1-Dichloroethylene	6/5/2018	4.2	0.5	UG/L	195	
524.2 TVOC	6/5/2018	24.92	0	UG/L	195	
Carbon tetrachloride	6/5/2018	1.2	0.5	UG/L	195	
Chloroform	6/5/2018	3.2	0.5	UG/L	195	
Tetrachloroethylene	6/5/2018	5.8	0.5	UG/L	195	
1,1,1-Trichloroethane	11/13/2017	7	0.5	UG/L	195	
1,1-Dichloroethane	11/13/2017	0.45	0.5	UG/L	195	J
1,1-Dichloroethylene	11/13/2017	3	0.5	UG/L	195	
524.2 TVOC	11/13/2017	21.45	0	UG/L	195	
Carbon tetrachloride	11/13/2017	1.4	0.5	UG/L	195	
Chloroform	11/13/2017	2.5	0.5	UG/L	195	
Tetrachloroethylene	11/13/2017	7.1	0.5	UG/L	195	
1,1,1-Trichloroethane	5/9/2017	3.2	0.5	UG/L	195	
1,1-Dichloroethane	5/9/2017	0.22	0.5	UG/L	195	J
1,1-Dichloroethylene	5/9/2017	1.3	0.5	UG/L	195	
524.2 TVOC	5/9/2017	11.52	0	UG/L	195	

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Carbon tetrachloride	5/9/2017	2	0.5	UG/L	195	
Chloroform	5/9/2017	1.8	0.5	UG/L	195	
Tetrachloroethylene	5/9/2017	3	0.5	UG/L	195	
1,1,1-Trichloroethane	11/14/2016	3	0.5	UG/L	195	
1,1-Dichloroethane	11/14/2016	0.17	0.5	UG/L	195	J
1,1-Dichloroethylene	11/14/2016	1.3	0.5	UG/L	195	
524.2 TVOC	11/14/2016	12.34	0	UG/L	195	
Carbon tetrachloride	11/14/2016	1.4	0.5	UG/L	195	
Chloroform	11/14/2016	1.6	0.5	UG/L	195	
Tetrachloroethylene	11/14/2016	3.9	0.5	UG/L	195	
Toluene	11/14/2016	0.97	0.5	UG/L	195	
524.2 TVOC	5/3/2016	0.568	0	UG/L	195	
Chloroform	5/3/2016	0.49	0.5	UG/L	195	J
Toluene	5/3/2016	0.078	0.5	UG/L	195	J

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,1-Trichloroethane	12/11/2019	1.1	0.5	UG/L	330	
1,1-Dichloroethane	12/11/2019	4.1	0.5	UG/L	330	
1,1-Dichloroethylene	12/11/2019	0.49	0.5	UG/L	330	J
1,2-Dichloropropane	12/11/2019	0.32	0.5	UG/L	330	J
524.2 TVOC	12/11/2019	8.15	0	UG/L	330	
Chloroethane	12/11/2019	0.42	0.5	UG/L	330	J
Chloroform	12/11/2019	0.32	0.5	UG/L	330	J
cis-1,2-Dichloroethylene	12/11/2019	0.85	0.5	UG/L	330	
Trichlorofluoromethane	12/11/2019	0.18	0.5	UG/L	330	J
Vinyl chloride	12/11/2019	0.37	0.5	UG/L	330	J
1,1,1-Trichloroethane	5/20/2019	1.2	0.5	UG/L	330	
1,1-Dichloroethane	5/20/2019	4.8	0.5	UG/L	330	
1,1-Dichloroethylene	5/20/2019	0.6	0.5	UG/L	330	
524.2 TVOC	5/20/2019	8.09	0	UG/L	330	
cis-1,2-Dichloroethylene	5/20/2019	0.96	0.5	UG/L	330	
Vinyl chloride	5/20/2019	0.53	0.5	UG/L	330	
1,1,1-Trichloroethane	1/10/2019	1.57	0.5	UG/L	330	
1,1-Dichloroethane	1/10/2019	5.59	0.5	UG/L	330	
1,1-Dichloroethylene	1/10/2019	0.65	0.5	UG/L	330	
1,2-Dichloropropane	1/10/2019	0.32	0.5	UG/L	330	J
524.2 TVOC	1/10/2019	11.08	0	UG/L	330	
Chloroethane	1/10/2019	0.86	0.5	UG/L	330	
Chloroform	1/10/2019	0.32	0.5	UG/L	330	J
cis-1,2-Dichloroethylene	1/10/2019	0.88	0.5	UG/L	330	

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North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Trichloroethylene	1/10/2019	0.21	0.5	UG/L	330	J
Vinyl chloride	1/10/2019	0.68	0.5	UG/L	330	
524.2 TVOC	6/26/2018	0.81	0	UG/L	330	
Methylene chloride	6/26/2018	0.59	0.5	UG/L	330	
Vinyl chloride	6/26/2018	0.22	0.5	UG/L	330	J
1,1,1-Trichloroethane	11/21/2017	1.2	0.5	UG/L	330	
1,1-Dichloroethane	11/21/2017	4.5	0.5	UG/L	330	
1,1-Dichloroethylene	11/21/2017	0.44	0.5	UG/L	330	J
1,2-Dichloropropane	11/21/2017	0.23	0.5	UG/L	330	J
524.2 TVOC	11/21/2017	9.15	0	UG/L	330	
Chloroethane	11/21/2017	0.63	0.5	UG/L	330	
Chloroform	11/21/2017	0.37	0.5	UG/L	330	J
cis-1,2-Dichloroethylene	11/21/2017	0.67	0.5	UG/L	330	
Dichlorodifluoromethane	11/21/2017	0.17	0.5	UG/L	330	J
Trichlorofluoromethane	11/21/2017	0.49	0.5	UG/L	330	J
Vinyl chloride	11/21/2017	0.45	0.5	UG/L	330	J
1,1,1-Trichloroethane	5/23/2017	1.4	0.5	UG/L	330	
1,1-Dichloroethane	5/23/2017	4.9	0.5	UG/L	330	
1,1-Dichloroethylene	5/23/2017	0.56	0.5	UG/L	330	
1,2-Dichloropropane	5/23/2017	0.22	0.5	UG/L	330	J
524.2 TVOC	5/23/2017	9.82	0	UG/L	330	
Chloroethane	5/23/2017	0.69	0.5	UG/L	330	
Chloroform	5/23/2017	0.32	0.5	UG/L	330	J
cis-1,2-Dichloroethylene	5/23/2017	0.72	0.5	UG/L	330	
Trichlorofluoromethane	5/23/2017	0.58	0.5	UG/L	330	
Vinyl chloride	5/23/2017	0.43	0.5	UG/L	330	J
1,1,1-Trichloroethane	11/29/2016	1.2	0.5	UG/L	330	
1,1-Dichloroethane	11/29/2016	5	0.5	UG/L	330	
1,1-Dichloroethylene	11/29/2016	0.51	0.5	UG/L	330	
1,2-Dichloropropane	11/29/2016	0.23	0.5	UG/L	330	J
524.2 TVOC	11/29/2016	8.65	0	UG/L	330	
Chloroethane	11/29/2016	0.44	0.5	UG/L	330	J
Chloroform	11/29/2016	0.28	0.5	UG/L	330	J
cis-1,2-Dichloroethylene	11/29/2016	0.66	0.5	UG/L	330	
Vinyl chloride	11/29/2016	0.33	0.5	UG/L	330	J
1,1,1-Trichloroethane	5/20/2016	1.5	0.5	UG/L	330	
1,1-Dichloroethane	5/20/2016	5.4	0.5	UG/L	330	
1,1-Dichloroethylene	5/20/2016	0.52	0.5	UG/L	330	
1,2-Dichloropropane	5/20/2016	0.28	0.5	UG/L	330	J
524.2 TVOC	5/20/2016	10.767	0	UG/L	330	
Benzene	5/20/2016	0.087	0.5	UG/L	330	J
Chloroethane	5/20/2016	0.71	0.5	UG/L	330	

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North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Chloroform	5/20/2016	0.33	0.5	UG/L	330	J
cis-1,2-Dichloroethylene	5/20/2016	0.85	0.5	UG/L	330	
Dichlorodifluoromethane	5/20/2016	0.19	0.5	UG/L	330	J
Methylene chloride	5/20/2016	0.22	0.5	UG/L	330	J
Trichlorofluoromethane	5/20/2016	0.27	0.5	UG/L	330	J
Vinyl chloride	5/20/2016	0.41	0.5	UG/L	330	J
1,1,1-Trichloroethane	1/12/2016	1.3	0.5	UG/L	330	
1,1-Dichloroethane	1/12/2016	5.2	0.5	UG/L	330	
1,1-Dichloroethylene	1/12/2016	0.48	0.5	UG/L	330	J
1,2-Dichloropropane	1/12/2016	0.24	0.5	UG/L	330	J
524.2 TVOC	1/12/2016	9.681	0	UG/L	330	
Benzene	1/12/2016	0.071	0.5	UG/L	330	J
Chloroethane	1/12/2016	0.97	0.5	UG/L	330	
Chloroform	1/12/2016	0.29	0.5	UG/L	330	J
cis-1,2-Dichloroethylene	1/12/2016	0.68	0.5	UG/L	330	
Dichlorodifluoromethane	1/12/2016	0.11	0.5	UG/L	330	J
Methylene chloride	1/12/2016	0.13	0.5	UG/L	330	J
Trichlorofluoromethane	1/12/2016	0.21	0.5	UG/L	330	J

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
524.2 TVOC	11/15/2019	2.25	0	UG/L	168	
Carbon tetrachloride	11/15/2019	0.87	0.5	UG/L	168	
Chloroform	11/15/2019	0.87	0.5	UG/L	168	
Trichloroethylene	11/15/2019	0.51	0.5	UG/L	168	
524.2 TVOC	5/6/2019	0.89	0	UG/L	168	
Chloroform	5/6/2019	0.89	0.5	UG/L	168	
524.2 TVOC	12/6/2018	2.45	0	UG/L	170	
Carbon tetrachloride	12/6/2018	0.72	0.5	UG/L	170	
Chloroform	12/6/2018	0.91	0.5	UG/L	170	
Tetrachloroethylene	12/6/2018	0.2	0.5	UG/L	170	J
Trichloroethylene	12/6/2018	0.62	0.5	UG/L	170	
524.2 TVOC	8/17/2018	2.1	0	UG/L	168	
Carbon tetrachloride	8/17/2018	0.62	0.5	UG/L	168	
Chloroform	8/17/2018	0.85	0.5	UG/L	168	
Trichloroethylene	8/17/2018	0.63	0.5	UG/L	168	
524.2 TVOC	5/31/2018	1.86	0	UG/L	168	
Carbon tetrachloride	5/31/2018	0.63	0.5	UG/L	168	
Chloroform	5/31/2018	0.71	0.5	UG/L	168	
Trichloroethylene	5/31/2018	0.52	0.5	UG/L	168	
524.2 TVOC	1/22/2018	2.38	0	UG/L	168	

Appendix 1
North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Carbon tetrachloride	1/22/2018	0.65	0.5	UG/L	168	
Chloroform	1/22/2018	0.84	0.5	UG/L	168	
Tetrachloroethylene	1/22/2018	0.22	0.5	UG/L	168	J
Trichloroethylene	1/22/2018	0.67	0.5	UG/L	168	
1,1,1-Trichloroethane	11/13/2017	0.17	0.5	UG/L	168	J
524.2 TVOC	11/13/2017	3.49	0	UG/L	168	
Carbon tetrachloride	11/13/2017	1.3	0.5	UG/L	168	
Chloroform	11/13/2017	1	0.5	UG/L	168	
Tetrachloroethylene	11/13/2017	0.21	0.5	UG/L	168	J
Trichloroethylene	11/13/2017	0.81	0.5	UG/L	168	
1,1,2,2-Tetrachloroethane	8/16/2017	0.15	0.5	UG/L	168	J
524.2 TVOC	8/16/2017	3.92	0	UG/L	168	
Carbon tetrachloride	8/16/2017	1	0.5	UG/L	168	
Chloroform	8/16/2017	0.95	0.5	UG/L	168	
Tetrachloroethylene	8/16/2017	0.22	0.5	UG/L	168	J
Toluene	8/16/2017	0.84	0.5	UG/L	168	
Trichloroethylene	8/16/2017	0.76	0.5	UG/L	168	
524.2 TVOC	5/8/2017	2.9	0	UG/L	168	
Carbon tetrachloride	5/8/2017	1.2	0.5	UG/L	168	
Chloroform	5/8/2017	0.88	0.5	UG/L	168	
Trichloroethylene	5/8/2017	0.82	0.5	UG/L	168	
524.2 TVOC	1/24/2017	2.83	0	UG/L	168	
Carbon tetrachloride	1/24/2017	0.86	0.5	UG/L	168	
Chloroform	1/24/2017	0.93	0.5	UG/L	168	
Toluene	1/24/2017	0.46	0.5	UG/L	168	J
Trichloroethylene	1/24/2017	0.58	0.5	UG/L	168	
524.2 TVOC	11/7/2016	3.1	0	UG/L	168	
Carbon tetrachloride	11/7/2016	0.73	0.5	UG/L	168	
Chloroform	11/7/2016	0.93	0.5	UG/L	168	
Toluene	11/7/2016	0.83	0.5	UG/L	168	
Trichloroethylene	11/7/2016	0.61	0.5	UG/L	168	
524.2 TVOC	7/28/2016	2.68	0	UG/L	168	
Carbon tetrachloride	7/28/2016	0.62	0.5	UG/L	168	
Chloroform	7/28/2016	0.94	0.5	UG/L	168	
Toluene	7/28/2016	0.52	0.5	UG/L	168	
Trichloroethylene	7/28/2016	0.6	0.5	UG/L	168	
524.2 TVOC	4/25/2016	1.61	0	UG/L	168	
Carbon tetrachloride	4/25/2016	0.33	0.5	UG/L	168	J
Chloroform	4/25/2016	0.91	0.5	UG/L	168	
Trichloroethylene	4/25/2016	0.37	0.5	UG/L	168	J
524.2 TVOC	2/22/2016	2.95	0	UG/L	168	
Carbon tetrachloride	2/22/2016	0.34	0.5	UG/L	168	J

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Chloroform	2/22/2016	0.56	0.5	UG/L	168	
Tetrachloroethylene	2/22/2016	0.2	0.5	UG/L	168	J
Toluene	2/22/2016	1.5	0.5	UG/L	168	
Trichloroethylene	2/22/2016	0.35	0.5	UG/L	168	J

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,1-Trichloroethane	11/15/2019	0.38	0.5	UG/L	193	J
1,1-Dichloroethane	11/15/2019	0.14	0.5	UG/L	193	J
1,1-Dichloroethylene	11/15/2019	0.18	0.5	UG/L	193	J
524.2 TVOC	11/15/2019	4.08	0	UG/L	193	
Carbon tetrachloride	11/15/2019	1.3	0.5	UG/L	193	
Chloroform	11/15/2019	0.98	0.5	UG/L	193	
Tetrachloroethylene	11/15/2019	0.24	0.5	UG/L	193	J
Trichloroethylene	11/15/2019	0.86	0.5	UG/L	193	
524.2 TVOC	5/6/2019	2.32	0	UG/L	188	
Carbon tetrachloride	5/6/2019	0.7	0.5	UG/L	188	
Chloroform	5/6/2019	0.87	0.5	UG/L	188	
Trichloroethylene	5/6/2019	0.75	0.5	UG/L	188	
1,1,1-Trichloroethane	12/6/2018	0.38	0.5	UG/L	193	J
1,1-Dichloroethane	12/6/2018	0.11	0.5	UG/L	193	J
1,1-Dichloroethylene	12/6/2018	0.17	0.5	UG/L	193	J
524.2 TVOC	12/6/2018	3.69	0	UG/L	193	
Carbon tetrachloride	12/6/2018	1.2	0.5	UG/L	193	
Chloroform	12/6/2018	0.81	0.5	UG/L	193	
Tetrachloroethylene	12/6/2018	0.29	0.5	UG/L	193	J
Trichloroethylene	12/6/2018	0.73	0.5	UG/L	193	
1,1,1-Trichloroethane	8/17/2018	0.38	0.5	UG/L	193	J
1,1-Dichloroethane	8/17/2018	0.097	0.5	UG/L	193	J
1,1-Dichloroethylene	8/17/2018	0.16	0.5	UG/L	193	J
524.2 TVOC	8/17/2018	3.677	0	UG/L	193	
Carbon tetrachloride	8/17/2018	1.1	0.5	UG/L	193	
Chloroform	8/17/2018	0.69	0.5	UG/L	193	
Tetrachloroethylene	8/17/2018	0.37	0.5	UG/L	193	J
Trichloroethylene	8/17/2018	0.88	0.5	UG/L	193	
1,1,1-Trichloroethane	6/12/2018	0.38	0.5	UG/L	193	J
1,1-Dichloroethane	6/12/2018	0.13	0.5	UG/L	193	J
1,1-Dichloroethylene	6/12/2018	0.12	0.5	UG/L	193	J
524.2 TVOC	6/12/2018	4.24	0	UG/L	193	
Carbon tetrachloride	6/12/2018	1.2	0.5	UG/L	193	
Chloroform	6/12/2018	0.69	0.5	UG/L	193	

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Methylene chloride	6/12/2018	0.55	0.5	UG/L	193	
Tetrachloroethylene	6/12/2018	0.32	0.5	UG/L	193	J
Trichloroethylene	6/12/2018	0.85	0.5	UG/L	193	
1,1,1-Trichloroethane	1/22/2018	0.34	0.5	UG/L	193	J
1,1,2,2-Tetrachloroethane	1/22/2018	0.18	0.5	UG/L	193	J
1,1-Dichloroethane	1/22/2018	0.076	0.5	UG/L	193	J
1,1-Dichloroethylene	1/22/2018	0.13	0.5	UG/L	193	J
524.2 TVOC	1/22/2018	3.916	0	UG/L	193	
Carbon tetrachloride	1/22/2018	1.3	0.5	UG/L	193	
Chloroform	1/22/2018	0.76	0.5	UG/L	193	
Tetrachloroethylene	1/22/2018	0.31	0.5	UG/L	193	J
Trichloroethylene	1/22/2018	0.82	0.5	UG/L	193	
1,1,1-Trichloroethane	11/13/2017	0.39	0.5	UG/L	193	J
1,1-Dichloroethylene	11/13/2017	0.13	0.5	UG/L	193	J
524.2 TVOC	11/13/2017	3.69	0	UG/L	193	
Carbon tetrachloride	11/13/2017	1.3	0.5	UG/L	193	
Chloroform	11/13/2017	0.71	0.5	UG/L	193	
Tetrachloroethylene	11/13/2017	0.3	0.5	UG/L	193	J
Trichloroethylene	11/13/2017	0.86	0.5	UG/L	193	
1,1,1-Trichloroethane	8/16/2017	0.39	0.5	UG/L	193	J
1,1-Dichloroethane	8/16/2017	0.071	0.5	UG/L	193	J
1,1-Dichloroethylene	8/16/2017	0.16	0.5	UG/L	193	J
524.2 TVOC	8/16/2017	4.371	0	UG/L	193	
Carbon tetrachloride	8/16/2017	1.8	0.5	UG/L	193	
Chloroform	8/16/2017	0.69	0.5	UG/L	193	
Tetrachloroethylene	8/16/2017	0.29	0.5	UG/L	193	J
Trichloroethylene	8/16/2017	0.97	0.5	UG/L	193	
1,1,1-Trichloroethane	5/8/2017	0.31	0.5	UG/L	193	J
1,1,2,2-Tetrachloroethane	5/8/2017	0.12	0.5	UG/L	193	J
1,1-Dichloroethylene	5/8/2017	0.12	0.5	UG/L	193	J
524.2 TVOC	5/8/2017	3.16	0	UG/L	193	
Carbon tetrachloride	5/8/2017	0.96	0.5	UG/L	193	
Chloroform	5/8/2017	0.67	0.5	UG/L	193	
Tetrachloroethylene	5/8/2017	0.25	0.5	UG/L	193	J
Trichloroethylene	5/8/2017	0.73	0.5	UG/L	193	
1,1,1-Trichloroethane	1/24/2017	0.4	0.5	UG/L	193	J
1,1-Dichloroethane	1/24/2017	0.083	0.5	UG/L	193	J
524.2 TVOC	1/24/2017	8.323	0	UG/L	193	
Carbon tetrachloride	1/24/2017	6.4	0.5	UG/L	193	
Chloroform	1/24/2017	0.69	0.5	UG/L	193	
Trichloroethylene	1/24/2017	0.75	0.5	UG/L	193	
1,1,1-Trichloroethane	11/7/2016	0.4	0.5	UG/L	193	J

Appendix 1
North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,2,2-Tetrachloroethane	11/7/2016	0.22	0.5	UG/L	193	J
1,1-Dichloroethane	11/7/2016	0.078	0.5	UG/L	193	J
1,1-Dichloroethylene	11/7/2016	0.15	0.5	UG/L	193	J
524.2 TVOC	11/7/2016	8.038	0	UG/L	193	
Carbon tetrachloride	11/7/2016	5.4	0.5	UG/L	193	
Chloroform	11/7/2016	0.7	0.5	UG/L	193	
Tetrachloroethylene	11/7/2016	0.19	0.5	UG/L	193	J
Trichloroethylene	11/7/2016	0.9	0.5	UG/L	193	
1,1,1-Trichloroethane	7/28/2016	0.41	0.5	UG/L	193	J
1,1,2,2-Tetrachloroethane	7/28/2016	0.14	0.5	UG/L	193	J
1,1-Dichloroethane	7/28/2016	0.074	0.5	UG/L	193	J
1,1-Dichloroethylene	7/28/2016	0.15	0.5	UG/L	193	J
524.2 TVOC	7/28/2016	5.224	0	UG/L	193	
Carbon tetrachloride	7/28/2016	2.5	0.5	UG/L	193	
Chloroform	7/28/2016	0.69	0.5	UG/L	193	
Tetrachloroethylene	7/28/2016	0.28	0.5	UG/L	193	J
Trichloroethylene	7/28/2016	0.98	0.5	UG/L	193	
1,1,1-Trichloroethane	4/25/2016	0.41	0.5	UG/L	193	J
1,1-Dichloroethylene	4/25/2016	0.22	0.5	UG/L	193	J
524.2 TVOC	4/25/2016	4.08	0	UG/L	193	
Carbon tetrachloride	4/25/2016	1.5	0.5	UG/L	193	
Chloroform	4/25/2016	0.67	0.5	UG/L	193	
Tetrachloroethylene	4/25/2016	0.29	0.5	UG/L	193	J
Trichloroethylene	4/25/2016	0.99	0.5	UG/L	193	
1,1,1-Trichloroethane	2/22/2016	0.4	0.5	UG/L	193	J
1,1-Dichloroethane	2/22/2016	0.083	0.5	UG/L	193	J
1,1-Dichloroethylene	2/22/2016	0.16	0.5	UG/L	193	J
524.2 TVOC	2/22/2016	5.073	0	UG/L	193	
Carbon tetrachloride	2/22/2016	2.5	0.5	UG/L	193	
Chloroform	2/22/2016	0.71	0.5	UG/L	193	
Tetrachloroethylene	2/22/2016	0.3	0.5	UG/L	193	J
Trichloroethylene	2/22/2016	0.92	0.5	UG/L	193	

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,1-Trichloroethane	11/15/2019	0.48	0.5	UG/L	190	J
1,1-Dichloroethane	11/15/2019	0.17	0.5	UG/L	190	J
1,1-Dichloroethylene	11/15/2019	0.18	0.5	UG/L	190	J
524.2 TVOC	11/15/2019	10.76	0	UG/L	190	
Carbon tetrachloride	11/15/2019	7	0.5	UG/L	190	
Chloroform	11/15/2019	1	0.5	UG/L	190	

Appendix 1
North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Tetrachloroethylene	11/15/2019	0.23	0.5	UG/L	190	J
Trichloroethylene	11/15/2019	1.7	0.5	UG/L	190	
524.2 TVOC	5/6/2019	2.82	0	UG/L	190	
Carbon tetrachloride	5/6/2019	1.1	0.5	UG/L	190	
Chloroform	5/6/2019	0.62	0.5	UG/L	190	
Trichloroethylene	5/6/2019	1.1	0.5	UG/L	190	
1,1,1-Trichloroethane	12/6/2018	0.38	0.5	UG/L	190	J
1,1-Dichloroethylene	12/6/2018	0.14	0.5	UG/L	190	J
524.2 TVOC	12/6/2018	5.56	0	UG/L	190	
Carbon tetrachloride	12/6/2018	2.9	0.5	UG/L	190	
Chloroform	12/6/2018	0.74	0.5	UG/L	190	
Trichloroethylene	12/6/2018	1.4	0.5	UG/L	190	
1,1,1-Trichloroethane	8/17/2018	0.49	0.5	UG/L	190	J
1,1,2,2-Tetrachloroethane	8/17/2018	0.33	0.5	UG/L	190	J
1,1-Dichloroethylene	8/17/2018	0.14	0.5	UG/L	190	J
524.2 TVOC	8/17/2018	12.95	0	UG/L	190	
Carbon tetrachloride	8/17/2018	8.7	0.5	UG/L	190	
Chloroform	8/17/2018	0.95	0.5	UG/L	190	
Dichlorodifluoromethane	8/17/2018	0.24	0.5	UG/L	190	J
Trichloroethylene	8/17/2018	2.1	0.5	UG/L	190	
1,1,1-Trichloroethane	5/31/2018	1.6	0.5	UG/L	190	
1,1,2,2-Tetrachloroethane	5/31/2018	0.38	0.5	UG/L	190	J
1,1-Dichloroethane	5/31/2018	0.098	0.5	UG/L	190	J
524.2 TVOC	5/31/2018	37.878	0	UG/L	190	
Carbon tetrachloride	5/31/2018	28	2.5	UG/L	190	
Chloroform	5/31/2018	3	0.5	UG/L	190	
Trichloroethylene	5/31/2018	4.8	0.5	UG/L	190	
1,1,1-Trichloroethane	1/23/2018	0.49	0.5	UG/L	190	J
524.2 TVOC	1/23/2018	15.02	0	UG/L	190	
Carbon tetrachloride	1/23/2018	11	0.5	UG/L	190	
Chloroform	1/23/2018	0.97	0.5	UG/L	190	
Tetrachloroethylene	1/23/2018	0.26	0.5	UG/L	190	J
Trichloroethylene	1/23/2018	2.3	0.5	UG/L	190	
1,1,1-Trichloroethane	11/13/2017	0.55	0.5	UG/L	190	
1,1-Dichloroethane	11/13/2017	0.097	0.5	UG/L	190	J
1,1-Dichloroethylene	11/13/2017	0.24	0.5	UG/L	190	J
524.2 TVOC	11/13/2017	10.217	0	UG/L	190	
Carbon tetrachloride	11/13/2017	6.3	0.5	UG/L	190	
Chloroform	11/13/2017	0.89	0.5	UG/L	190	
Tetrachloroethylene	11/13/2017	0.24	0.5	UG/L	190	J
Trichloroethylene	11/13/2017	1.9	0.5	UG/L	190	
1,1,1-Trichloroethane	8/30/2017	0.5	0.5	UG/L	190	

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North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,2,2-Tetrachloroethane	8/30/2017	0.58	0.5	UG/L	190	
1,1-Dichloroethane	8/30/2017	0.096	0.5	UG/L	190	J
1,1-Dichloroethylene	8/30/2017	0.21	0.5	UG/L	190	J
524.2 TVOC	8/30/2017	7.826	0	UG/L	190	
Carbon tetrachloride	8/30/2017	3.8	0.5	UG/L	190	
Chloroform	8/30/2017	0.79	0.5	UG/L	190	
Tetrachloroethylene	8/30/2017	0.25	0.5	UG/L	190	J
Trichloroethylene	8/30/2017	1.6	0.5	UG/L	190	
1,1,1-Trichloroethane	8/15/2017	4.5	0.5	UG/L	190	
1,1,2,2-Tetrachloroethane	8/15/2017	0.76	0.5	UG/L	190	
1,1-Dichloroethane	8/15/2017	0.078	0.5	UG/L	190	J
524.2 TVOC	8/15/2017	147.138	0	UG/L	190	
Carbon tetrachloride	8/15/2017	120	5	UG/L	190	
Chloroform	8/15/2017	9.8	0.5	UG/L	190	
Trichloroethylene	8/15/2017	12	0.5	UG/L	190	
1,1,1-Trichloroethane	5/8/2017	0.47	0.5	UG/L	190	J
1,1,2,2-Tetrachloroethane	5/8/2017	0.28	0.5	UG/L	190	J
1,1-Dichloroethylene	5/8/2017	0.16	0.5	UG/L	190	J
524.2 TVOC	5/8/2017	7.3	0	UG/L	190	
Carbon tetrachloride	5/8/2017	4	0.5	UG/L	190	
Chloroform	5/8/2017	0.79	0.5	UG/L	190	
Trichloroethylene	5/8/2017	1.6	0.5	UG/L	190	
1,1,1-Trichloroethane	1/24/2017	0.66	0.5	UG/L	190	
1,1-Dichloroethylene	1/24/2017	0.13	0.5	UG/L	190	J
524.2 TVOC	1/24/2017	17.99	0	UG/L	190	
Carbon tetrachloride	1/24/2017	13	0.5	UG/L	190	
Chloroform	1/24/2017	1.3	0.5	UG/L	190	
Trichloroethylene	1/24/2017	2.9	0.5	UG/L	190	
1,1,1-Trichloroethane	11/14/2016	0.69	0.5	UG/L	190	
1,1,2,2-Tetrachloroethane	11/14/2016	0.49	0.5	UG/L	190	J
1,1-Dichloroethane	11/14/2016	0.078	0.5	UG/L	190	J
1,1-Dichloroethylene	11/14/2016	0.18	0.5	UG/L	190	J
524.2 TVOC	11/14/2016	14.828	0	UG/L	190	
Carbon tetrachloride	11/14/2016	9.6	0.5	UG/L	190	
Chloroform	11/14/2016	1.2	0.5	UG/L	190	
Tetrachloroethylene	11/14/2016	0.19	0.5	UG/L	190	J
Trichloroethylene	11/14/2016	2.4	0.5	UG/L	190	
1,1,1-Trichloroethane	7/28/2016	0.57	0.5	UG/L	190	
1,1,2,2-Tetrachloroethane	7/28/2016	0.21	0.5	UG/L	190	J
1,1-Dichloroethylene	7/28/2016	0.15	0.5	UG/L	190	J
524.2 TVOC	7/28/2016	14.53	0	UG/L	190	
Carbon tetrachloride	7/28/2016	10	0.5	UG/L	190	

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Chloroform	7/28/2016	1.4	0.5	UG/L	190	
Trichloroethylene	7/28/2016	2.2	0.5	UG/L	190	
1,1,1-Trichloroethane	5/3/2016	0.43	0.5	UG/L	190	J
1,1,2,2-Tetrachloroethane	5/3/2016	0.21	0.5	UG/L	190	J
1,1-Dichloroethylene	5/3/2016	0.1	0.5	UG/L	190	J
524.2 TVOC	5/3/2016	17.04	0	UG/L	190	
Carbon tetrachloride	5/3/2016	12	0.5	UG/L	190	
Chloroform	5/3/2016	1.3	0.5	UG/L	190	
Trichloroethylene	5/3/2016	3	0.5	UG/L	190	
1,1,1-Trichloroethane	2/22/2016	0.47	0.5	UG/L	190	J
1,1,2,2-Tetrachloroethane	2/22/2016	0.32	0.5	UG/L	190	J
1,1-Dichloroethylene	2/22/2016	0.22	0.5	UG/L	190	J
524.2 TVOC	2/22/2016	8.35	0	UG/L	190	
Carbon tetrachloride	2/22/2016	4.1	0.5	UG/L	190	
Chloroform	2/22/2016	1.2	0.5	UG/L	190	
Tetrachloroethylene	2/22/2016	0.34	0.5	UG/L	190	J
Trichloroethylene	2/22/2016	1.7	0.5	UG/L	190	

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,1-Trichloroethane	12/18/2019	0.59	0.5	UG/L	185	
1,1-Dichloroethane	12/18/2019	1	0.5	UG/L	185	
1,1-Dichloroethylene	12/18/2019	0.14	0.5	UG/L	185	J
524.2 TVOC	12/18/2019	4.71	0	UG/L	185	
Carbon tetrachloride	12/18/2019	0.31	0.5	UG/L	185	J
Chloroform	12/18/2019	1.3	0.5	UG/L	185	
Tetrachloroethylene	12/18/2019	0.27	0.5	UG/L	185	J
Trichloroethylene	12/18/2019	1.1	0.5	UG/L	185	
1,1,1-Trichloroethane	5/6/2019	0.76	0.5	UG/L	185	
1,1,2,2-Tetrachloroethane	5/6/2019	0.51	0.5	UG/L	185	
1,1-Dichloroethane	5/6/2019	1.4	0.5	UG/L	185	
524.2 TVOC	5/6/2019	5.37	0	UG/L	185	
Chloroform	5/6/2019	1.5	0.5	UG/L	185	
Trichloroethylene	5/6/2019	1.2	0.5	UG/L	185	
1,1,1-Trichloroethane	1/25/2019	0.82	0.5	UG/L	185	
1,1,2,2-Tetrachloroethane	1/25/2019	0.66	0.5	UG/L	185	
1,1-Dichloroethane	1/25/2019	1.16	0.5	UG/L	185	
524.2 TVOC	1/25/2019	6.7	0	UG/L	185	
Carbon tetrachloride	1/25/2019	0.73	0.5	UG/L	185	
Chloroform	1/25/2019	1.67	0.5	UG/L	185	
Tetrachloroethylene	1/25/2019	0.46	0.5	UG/L	185	J

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North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Trichloroethylene	1/25/2019	1.2	0.5	UG/L	185	
1,1,1-Trichloroethane	5/31/2018	0.83	0.5	UG/L	185	
1,1,2,2-Tetrachloroethane	5/31/2018	0.75	0.5	UG/L	185	
1,1-Dichloroethane	5/31/2018	1.1	0.5	UG/L	185	
1,1-Dichloroethylene	5/31/2018	0.37	0.5	UG/L	185	J
524.2 TVOC	5/31/2018	6.91	0	UG/L	185	
Carbon tetrachloride	5/31/2018	0.46	0.5	UG/L	185	J
Chloroform	5/31/2018	1.4	0.5	UG/L	185	
Tetrachloroethylene	5/31/2018	0.7	0.5	UG/L	185	
Trichloroethylene	5/31/2018	1.3	0.5	UG/L	185	
1,1,1-Trichloroethane	11/14/2017	1.1	0.5	UG/L	185	
1,1-Dichloroethane	11/14/2017	1.2	0.5	UG/L	185	
1,1-Dichloroethylene	11/14/2017	0.36	0.5	UG/L	185	J
524.2 TVOC	11/14/2017	6.35	0	UG/L	185	
Carbon tetrachloride	11/14/2017	0.28	0.5	UG/L	185	J
Chloroform	11/14/2017	1.3	0.5	UG/L	185	
Tetrachloroethylene	11/14/2017	0.91	0.5	UG/L	185	
Trichloroethylene	11/14/2017	1.2	0.5	UG/L	185	
1,1,1-Trichloroethane	5/8/2017	0.99	0.5	UG/L	185	
1,1-Dichloroethane	5/8/2017	1.9	0.5	UG/L	185	
1,1-Dichloroethylene	5/8/2017	0.36	0.5	UG/L	185	J
1,2-Dichloroethane	5/8/2017	0.31	0.5	UG/L	185	J
524.2 TVOC	5/8/2017	6.49	0	UG/L	185	
Chloroform	5/8/2017	0.5	0.5	UG/L	185	
Tetrachloroethylene	5/8/2017	1.6	0.5	UG/L	185	
Trichloroethylene	5/8/2017	0.83	0.5	UG/L	185	
1,1,1-Trichloroethane	11/14/2016	1.7	0.5	UG/L	185	
1,1-Dichloroethane	11/14/2016	4.3	0.5	UG/L	185	
1,1-Dichloroethylene	11/14/2016	0.68	0.5	UG/L	185	
524.2 TVOC	11/14/2016	10.54	0	UG/L	185	
Chloroform	11/14/2016	0.87	0.5	UG/L	185	
Tetrachloroethylene	11/14/2016	2.1	0.5	UG/L	185	
Trichloroethylene	11/14/2016	0.89	0.5	UG/L	185	
1,1,1-Trichloroethane	5/2/2016	1.3	0.5	UG/L	185	
1,1-Dichloroethane	5/2/2016	2.5	0.5	UG/L	185	
1,1-Dichloroethylene	5/2/2016	0.51	0.5	UG/L	185	
524.2 TVOC	5/2/2016	9.11	0	UG/L	185	
Carbon tetrachloride	5/2/2016	0.16	0.5	UG/L	185	J
Chloroform	5/2/2016	0.84	0.5	UG/L	185	
Tetrachloroethylene	5/2/2016	2.7	0.5	UG/L	185	
Trichloroethylene	5/2/2016	1.1	0.5	UG/L	185	

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North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,1-Trichloroethane	11/20/2019	2.1	0.5	UG/L	207	
1,1-Dichloroethylene	11/20/2019	0.77	0.5	UG/L	207	
524.2 TVOC	11/20/2019	6.75	0	UG/L	207	
Carbon tetrachloride	11/20/2019	0.51	0.5	UG/L	207	
Chloroform	11/20/2019	0.87	0.5	UG/L	207	
Tetrachloroethylene	11/20/2019	2.5	0.5	UG/L	207	
1,1,1-Trichloroethane	5/8/2019	1.8	0.5	UG/L	307	
1,1-Dichloroethylene	5/8/2019	0.76	0.5	UG/L	307	
524.2 TVOC	5/8/2019	4.32	0	UG/L	307	
Chloroform	5/8/2019	0.85	0.5	UG/L	307	
Tetrachloroethylene	5/8/2019	0.91	0.5	UG/L	307	
1,1,1-Trichloroethane	12/7/2018	3.1	0.5	UG/L	207	
1,1-Dichloroethylene	12/7/2018	1.2	0.5	UG/L	207	
524.2 TVOC	12/7/2018	9.8	0	UG/L	207	
Carbon tetrachloride	12/7/2018	1	0.5	UG/L	207	
Chloroform	12/7/2018	1	0.5	UG/L	207	
Tetrachloroethylene	12/7/2018	3.5	0.5	UG/L	207	
1,1,1-Trichloroethane	8/20/2018	2.2	0.5	UG/L	207	
1,1-Dichloroethane	8/20/2018	0.11	0.5	UG/L	207	J
1,1-Dichloroethylene	8/20/2018	0.81	0.5	UG/L	207	
524.2 TVOC	8/20/2018	5.51	0	UG/L	207	
Carbon tetrachloride	8/20/2018	0.54	0.5	UG/L	207	
Chloroform	8/20/2018	0.85	0.5	UG/L	207	
Tetrachloroethylene	8/20/2018	1	0.5	UG/L	207	
1,1,1-Trichloroethane	6/1/2018	1.4	0.5	UG/L	207	
1,1-Dichloroethane	6/1/2018	0.083	0.5	UG/L	207	J
1,1-Dichloroethylene	6/1/2018	0.55	0.5	UG/L	207	
524.2 TVOC	6/1/2018	4.053	0	UG/L	207	
Benzene	6/1/2018	0.15	0.5	UG/L	207	J
Carbon tetrachloride	6/1/2018	0.4	0.5	UG/L	207	J
Chloroform	6/1/2018	0.64	0.5	UG/L	207	
Tetrachloroethylene	6/1/2018	0.62	0.5	UG/L	207	
Toluene	6/1/2018	0.21	0.5	UG/L	207	J
1,1,1-Trichloroethane	1/22/2018	2.3	0.5	UG/L	207	
1,1-Dichloroethane	1/22/2018	0.083	0.5	UG/L	207	J
1,1-Dichloroethylene	1/22/2018	0.84	0.5	UG/L	207	
524.2 TVOC	1/22/2018	5.953	0	UG/L	207	

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North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Carbon tetrachloride	1/22/2018	0.61	0.5	UG/L	207	
Chloroform	1/22/2018	0.92	0.5	UG/L	207	
Tetrachloroethylene	1/22/2018	1.2	0.5	UG/L	207	
1,1,1-Trichloroethane	11/13/2017	2.3	0.5	UG/L	207	
1,1-Dichloroethane	11/13/2017	0.1	0.5	UG/L	207	J
1,1-Dichloroethylene	11/13/2017	0.86	0.5	UG/L	207	
524.2 TVOC	11/13/2017	5.72	0	UG/L	207	
Carbon tetrachloride	11/13/2017	0.69	0.5	UG/L	207	
Chloroform	11/13/2017	1	0.5	UG/L	207	
Tetrachloroethylene	11/13/2017	0.77	0.5	UG/L	207	
1,1,1-Trichloroethane	8/16/2017	1.3	0.5	UG/L	207	
1,1-Dichloroethylene	8/16/2017	0.35	0.5	UG/L	207	J
524.2 TVOC	8/16/2017	2.96	0	UG/L	207	
Carbon tetrachloride	8/16/2017	0.34	0.5	UG/L	207	J
Chloroform	8/16/2017	0.73	0.5	UG/L	207	
Tetrachloroethylene	8/16/2017	0.24	0.5	UG/L	207	J
1,1,1-Trichloroethane	5/9/2017	1.4	0.5	UG/L	207	
1,1-Dichloroethylene	5/9/2017	0.43	0.5	UG/L	207	J
524.2 TVOC	5/9/2017	3.37	0	UG/L	207	
Carbon tetrachloride	5/9/2017	0.41	0.5	UG/L	207	J
Chloroform	5/9/2017	0.77	0.5	UG/L	207	
Tetrachloroethylene	5/9/2017	0.36	0.5	UG/L	207	J
1,1,1-Trichloroethane	1/24/2017	0.52	0.5	UG/L	207	
1,1-Dichloroethylene	1/24/2017	0.13	0.5	UG/L	207	J
524.2 TVOC	1/24/2017	1.38	0	UG/L	207	
Carbon tetrachloride	1/24/2017	0.19	0.5	UG/L	207	J
Chloroform	1/24/2017	0.54	0.5	UG/L	207	
1,1,1-Trichloroethane	11/15/2016	0.52	0.5	UG/L	207	
1,1-Dichloroethylene	11/15/2016	0.17	0.5	UG/L	207	J
524.2 TVOC	11/15/2016	1.5	0	UG/L	207	
Carbon tetrachloride	11/15/2016	0.21	0.5	UG/L	207	J
Chloroform	11/15/2016	0.6	0.5	UG/L	207	
1,1,1-Trichloroethane	7/28/2016	0.38	0.5	UG/L	207	J
1,1-Dichloroethylene	7/28/2016	0.1	0.5	UG/L	207	J
524.2 TVOC	7/28/2016	1.07	0	UG/L	207	
Chloroform	7/28/2016	0.59	0.5	UG/L	207	
1,1,1-Trichloroethane	5/3/2016	0.33	0.5	UG/L	207	J
524.2 TVOC	5/3/2016	1.09	0	UG/L	207	
Carbon tetrachloride	5/3/2016	0.13	0.5	UG/L	207	J
Chloroform	5/3/2016	0.63	0.5	UG/L	207	
1,1,1-Trichloroethane	2/23/2016	0.23	0.5	UG/L	207	J
524.2 TVOC	2/23/2016	0.95	0	UG/L	207	

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Carbon tetrachloride	2/23/2016	0.16	0.5	UG/L	207	J
Chloroform	2/23/2016	0.56	0.5	UG/L	207	

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
524.2 TVOC	11/18/2019	0.83	0	UG/L	172	
Methyl tert-butyl ether	11/18/2019	0.83	0.5	UG/L	172	
524.2 TVOC	5/6/2019	0.6	0	UG/L	172	
Chloroform	5/6/2019	0.6	0.5	UG/L	172	
524.2 TVOC	12/7/2018	1.1	0	UG/L	177	
Chloroform	12/7/2018	1.1	0.5	UG/L	177	
524.2 TVOC	5/31/2018	0.87	0	UG/L	172	
Chloroform	5/31/2018	0.87	0.5	UG/L	172	
524.2 TVOC	11/13/2017	0.65	0	UG/L	172	
Chloroform	11/13/2017	0.5	0.5	UG/L	172	
Methyl tert-butyl ether	11/13/2017	0.15	0.5	UG/L	172	J
524.2 TVOC	5/8/2017	0.84	0	UG/L	172	
Chloroform	5/8/2017	0.41	0.5	UG/L	172	J
Methyl tert-butyl ether	5/8/2017	0.43	0.5	UG/L	172	J
524.2 TVOC	11/14/2016	0.72	0	UG/L	172	
Chloroform	11/14/2016	0.48	0.5	UG/L	172	J
Methyl tert-butyl ether	11/14/2016	0.24	0.5	UG/L	172	J
524.2 TVOC	5/2/2016	0.69	0	UG/L	172	
Chloroform	5/2/2016	0.69	0.5	UG/L	172	

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,1-Trichloroethane	11/18/2019	0.4	0.5	UG/L	175	J
1,1-Dichloroethylene	11/18/2019	0.19	0.5	UG/L	175	J
524.2 TVOC	11/18/2019	5.55	0	UG/L	175	
Carbon tetrachloride	11/18/2019	2.4	0.5	UG/L	175	
Chloroform	11/18/2019	0.86	0.5	UG/L	175	
Trichloroethylene	11/18/2019	1.7	0.5	UG/L	175	
524.2 TVOC	5/6/2019	3.67	0	UG/L	175	
Carbon tetrachloride	5/6/2019	1.6	0.5	UG/L	175	
Chloroform	5/6/2019	0.87	0.5	UG/L	175	
Trichloroethylene	5/6/2019	1.2	0.5	UG/L	175	
1,1,1-Trichloroethane	12/6/2018	0.18	0.5	UG/L	175	J
524.2 TVOC	12/6/2018	3.03	0	UG/L	175	
Carbon tetrachloride	12/6/2018	1.2	0.5	UG/L	175	

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Chloroform	12/6/2018	0.93	0.5	UG/L	175	
Trichloroethylene	12/6/2018	0.72	0.5	UG/L	175	
524.2 TVOC	8/17/2018	2.03	0	UG/L	175	
Carbon tetrachloride	8/17/2018	0.62	0.5	UG/L	175	
Chloroform	8/17/2018	0.92	0.5	UG/L	175	
Trichloroethylene	8/17/2018	0.49	0.5	UG/L	175	J
524.2 TVOC	6/1/2018	1.95	0	UG/L	175	
Carbon tetrachloride	6/1/2018	0.59	0.5	UG/L	175	
Chloroform	6/1/2018	0.91	0.5	UG/L	175	
Trichloroethylene	6/1/2018	0.45	0.5	UG/L	175	J
524.2 TVOC	1/23/2018	1.58	0	UG/L	175	
Carbon tetrachloride	1/23/2018	0.44	0.5	UG/L	175	J
Chloroform	1/23/2018	0.86	0.5	UG/L	175	
Trichloroethylene	1/23/2018	0.28	0.5	UG/L	175	J
1,1-Dichloroethane	11/13/2017	0.092	0.5	UG/L	175	J
524.2 TVOC	11/13/2017	1.292	0	UG/L	175	
Carbon tetrachloride	11/13/2017	0.35	0.5	UG/L	175	J
Chloroform	11/13/2017	0.85	0.5	UG/L	175	
1,1-Dichloroethane	10/3/2017	0.12	0.5	UG/L	175	J
524.2 TVOC	10/3/2017	1.57	0	UG/L	175	
Carbon tetrachloride	10/3/2017	0.53	0.5	UG/L	175	
Chloroform	10/3/2017	0.92	0.5	UG/L	175	
524.2 TVOC	8/29/2017	28.7	0	UG/L	175	
Chloroform	8/29/2017	0.7	0.5	UG/L	175	
524.2 TVOC	5/8/2017	0.5	0	UG/L	175	
Chloroform	5/8/2017	0.32	0.5	UG/L	175	J
Methyl tert-butyl ether	5/8/2017	0.18	0.5	UG/L	175	J
524.2 TVOC	1/24/2017	0.61	0	UG/L	175	
Chloroform	1/24/2017	0.18	0.5	UG/L	175	J
Methyl tert-butyl ether	1/24/2017	0.43	0.5	UG/L	175	J
524.2 TVOC	11/14/2016	0.72	0	UG/L	175	
Chloroform	11/14/2016	0.1	0.5	UG/L	175	J
Methyl tert-butyl ether	11/14/2016	0.19	0.5	UG/L	175	J
Toluene	11/14/2016	0.43	0.5	UG/L	175	J
524.2 TVOC	7/28/2016	0.13	0	UG/L	175	
Chloroform	7/28/2016	0.13	0.5	UG/L	175	J
524.2 TVOC	5/2/2016	0.31	0	UG/L	175	
Chloroform	5/2/2016	0.31	0.5	UG/L	175	J
524.2 TVOC	2/22/2016	0.46	0	UG/L	175	
Chloroform	2/22/2016	0.46	0.5	UG/L	175	J

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North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
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Site ID : 000-472

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,1-Trichloroethane	11/20/2019	2.7	0.5	UG/L	211	
1,1-Dichloroethane	11/20/2019	0.41	0.5	UG/L	211	J
1,1-Dichloroethylene	11/20/2019	1.5	0.5	UG/L	211	
524.2 TVOC	11/20/2019	15.25	0	UG/L	211	
Carbon tetrachloride	11/20/2019	0.61	0.5	UG/L	211	
Chloroform	11/20/2019	2.1	0.5	UG/L	211	
Tetrachloroethylene	11/20/2019	7.4	0.5	UG/L	211	
Trichloroethylene	11/20/2019	0.53	0.5	UG/L	211	
1,1,1-Trichloroethane	5/8/2019	2.8	0.5	UG/L	211	
1,1-Dichloroethylene	5/8/2019	1.6	0.5	UG/L	211	
524.2 TVOC	5/8/2019	16.44	0	UG/L	211	
Carbon tetrachloride	5/8/2019	0.74	0.5	UG/L	211	
Chloroform	5/8/2019	1.7	0.5	UG/L	211	
Tetrachloroethylene	5/8/2019	9.6	0.5	UG/L	211	
1,1,1-Trichloroethane	12/7/2018	3.6	0.5	UG/L	211	
1,1-Dichloroethane	12/7/2018	0.42	0.5	UG/L	211	J
1,1-Dichloroethylene	12/7/2018	2	0.5	UG/L	211	
524.2 TVOC	12/7/2018	20.36	0	UG/L	211	
Carbon tetrachloride	12/7/2018	1	0.5	UG/L	211	
Chloroform	12/7/2018	1.3	0.5	UG/L	211	
Dichlorodifluoromethane	12/7/2018	0.53	0.5	UG/L	211	
Tetrachloroethylene	12/7/2018	11	0.5	UG/L	211	
Trichloroethylene	12/7/2018	0.51	0.5	UG/L	211	
1,1,1-Trichloroethane	8/17/2018	3.7	0.5	UG/L	211	
1,1-Dichloroethane	8/17/2018	0.35	0.5	UG/L	211	J
1,1-Dichloroethylene	8/17/2018	3	0.5	UG/L	211	
524.2 TVOC	8/17/2018	22.12	0	UG/L	211	
Carbon tetrachloride	8/17/2018	0.77	0.5	UG/L	211	
Chloroform	8/17/2018	1.2	0.5	UG/L	211	
Dichlorodifluoromethane	8/17/2018	0.51	0.5	UG/L	211	
Tetrachloroethylene	8/17/2018	12	0.5	UG/L	211	
Trichloroethylene	8/17/2018	0.59	0.5	UG/L	211	
1,1,1-Trichloroethane	6/1/2018	5.6	0.5	UG/L	211	
1,1-Dichloroethane	6/1/2018	0.35	0.5	UG/L	211	J
1,1-Dichloroethylene	6/1/2018	5.1	0.5	UG/L	211	
524.2 TVOC	6/1/2018	25.78	0	UG/L	211	
Carbon tetrachloride	6/1/2018	0.96	0.5	UG/L	211	
Chloroform	6/1/2018	1.3	0.5	UG/L	211	

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Dichlorodifluoromethane	6/1/2018	0.51	0.5	UG/L	211	
Tetrachloroethylene	6/1/2018	11	0.5	UG/L	211	
Trichloroethylene	6/1/2018	0.81	0.5	UG/L	211	
Trichlorofluoromethane	6/1/2018	0.15	0.5	UG/L	211	J
1,1,1-Trichloroethane	1/22/2018	3.4	0.5	UG/L	211	
1,1-Dichloroethane	1/22/2018	0.41	0.5	UG/L	211	J
1,1-Dichloroethylene	1/22/2018	1.6	0.5	UG/L	211	
524.2 TVOC	1/22/2018	20.26	0	UG/L	211	
Carbon tetrachloride	1/22/2018	0.85	0.5	UG/L	211	
Chloroform	1/22/2018	1.3	0.5	UG/L	211	
Dichlorodifluoromethane	1/22/2018	0.27	0.5	UG/L	211	J
Tetrachloroethylene	1/22/2018	12	0.5	UG/L	211	
Trichloroethylene	1/22/2018	0.43	0.5	UG/L	211	J
1,1,1-Trichloroethane	11/13/2017	4.1	0.5	UG/L	211	
1,1-Dichloroethane	11/13/2017	0.44	0.5	UG/L	211	J
1,1-Dichloroethylene	11/13/2017	1.8	0.5	UG/L	211	
524.2 TVOC	11/13/2017	23.89	0	UG/L	211	
Carbon tetrachloride	11/13/2017	0.98	0.5	UG/L	211	
Chloroform	11/13/2017	1.4	0.5	UG/L	211	
Dichlorodifluoromethane	11/13/2017	0.36	0.5	UG/L	211	J
Tetrachloroethylene	11/13/2017	14	0.5	UG/L	211	
Trichloroethylene	11/13/2017	0.56	0.5	UG/L	211	
Trichlorofluoromethane	11/13/2017	0.25	0.5	UG/L	211	J
1,1,1-Trichloroethane	8/16/2017	5.4	0.5	UG/L	211	
1,1-Dichloroethane	8/16/2017	0.38	0.5	UG/L	211	J
1,1-Dichloroethylene	8/16/2017	4	0.5	UG/L	211	
524.2 TVOC	8/16/2017	24.13	0	UG/L	211	
Carbon tetrachloride	8/16/2017	0.99	0.5	UG/L	211	
Chloroform	8/16/2017	1.3	0.5	UG/L	211	
Dichlorodifluoromethane	8/16/2017	0.37	0.5	UG/L	211	J
Tetrachloroethylene	8/16/2017	11	0.5	UG/L	211	
Trichloroethylene	8/16/2017	0.69	0.5	UG/L	211	
1,1,1-Trichloroethane	5/9/2017	4.7	0.5	UG/L	211	
1,1-Dichloroethane	5/9/2017	0.44	0.5	UG/L	211	J
1,1-Dichloroethylene	5/9/2017	1.7	0.5	UG/L	211	
524.2 TVOC	5/9/2017	22.13	0	UG/L	211	
Carbon tetrachloride	5/9/2017	1.1	0.5	UG/L	211	
Chloroform	5/9/2017	1.2	0.5	UG/L	211	
Dichlorodifluoromethane	5/9/2017	0.3	0.5	UG/L	211	J
Tetrachloroethylene	5/9/2017	12	0.5	UG/L	211	
Trichloroethylene	5/9/2017	0.58	0.5	UG/L	211	
Trichlorofluoromethane	5/9/2017	0.11	0.5	UG/L	211	J

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,1-Trichloroethane	1/24/2017	5.8	0.5	UG/L	211	
1,1-Dichloroethane	1/24/2017	0.49	0.5	UG/L	211	J
1,1-Dichloroethylene	1/24/2017	3.1	0.5	UG/L	211	
524.2 TVOC	1/24/2017	23.83	0	UG/L	211	
Carbon tetrachloride	1/24/2017	1	0.5	UG/L	211	
Chloroform	1/24/2017	1.2	0.5	UG/L	211	
Dichlorodifluoromethane	1/24/2017	0.45	0.5	UG/L	211	J
Tetrachloroethylene	1/24/2017	11	0.5	UG/L	211	
Trichloroethylene	1/24/2017	0.62	0.5	UG/L	211	
Trichlorofluoromethane	1/24/2017	0.17	0.5	UG/L	211	J
1,1,1-Trichloroethane	11/15/2016	7.3	0.5	UG/L	211	
1,1-Dichloroethane	11/15/2016	0.53	0.5	UG/L	211	
1,1-Dichloroethylene	11/15/2016	6.7	0.5	UG/L	211	
524.2 TVOC	11/15/2016	29.64	0	UG/L	211	
Carbon tetrachloride	11/15/2016	1.2	0.5	UG/L	211	
Chloroform	11/15/2016	1.3	0.5	UG/L	211	
Dichlorodifluoromethane	11/15/2016	0.63	0.5	UG/L	211	
Tetrachloroethylene	11/15/2016	11	0.5	UG/L	211	
Trichloroethylene	11/15/2016	0.98	0.5	UG/L	211	
1,1,1-Trichloroethane	8/3/2016	4.8	0.5	UG/L	211	
1,1-Dichloroethane	8/3/2016	0.52	0.5	UG/L	211	
1,1-Dichloroethylene	8/3/2016	2.6	0.5	UG/L	211	
524.2 TVOC	8/3/2016	23.32	0	UG/L	211	
Carbon tetrachloride	8/3/2016	1.1	0.5	UG/L	211	
Chloroform	8/3/2016	1.2	0.5	UG/L	211	
Dichlorodifluoromethane	8/3/2016	0.45	0.5	UG/L	211	J
Tetrachloroethylene	8/3/2016	12	0.5	UG/L	211	
Trichloroethylene	8/3/2016	0.53	0.5	UG/L	211	
Trichlorofluoromethane	8/3/2016	0.12	0.5	UG/L	211	J
1,1,1-Trichloroethane	5/3/2016	4.4	0.5	UG/L	211	
1,1-Dichloroethane	5/3/2016	0.56	0.5	UG/L	211	
1,1-Dichloroethylene	5/3/2016	2	0.5	UG/L	211	
524.2 TVOC	5/3/2016	21.39	0	UG/L	211	
Carbon tetrachloride	5/3/2016	0.96	0.5	UG/L	211	
Chloroform	5/3/2016	1.4	0.5	UG/L	211	
Dichlorodifluoromethane	5/3/2016	0.4	0.5	UG/L	211	J
Tetrachloroethylene	5/3/2016	11	0.5	UG/L	211	
Trichloroethylene	5/3/2016	0.55	0.5	UG/L	211	
Trichlorofluoromethane	5/3/2016	0.12	0.5	UG/L	211	J
1,1,1-Trichloroethane	2/23/2016	4.3	0.5	UG/L	211	
1,1-Dichloroethane	2/23/2016	0.62	0.5	UG/L	211	
1,1-Dichloroethylene	2/23/2016	2.1	0.5	UG/L	211	

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
524.2 TVOC	2/23/2016	18.99	0	UG/L	211	
Carbon tetrachloride	2/23/2016	0.84	0.5	UG/L	211	
Chloroform	2/23/2016	1.4	0.5	UG/L	211	
Dichlorodifluoromethane	2/23/2016	0.41	0.5	UG/L	211	J
Tetrachloroethylene	2/23/2016	8.6	0.5	UG/L	211	
Trichloroethylene	2/23/2016	0.6	0.5	UG/L	211	
Trichlorofluoromethane	2/23/2016	0.12	0.5	UG/L	211	J

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,1-Trichloroethane	11/20/2019	1.4	0.5	UG/L	200	
1,1-Dichloroethylene	11/20/2019	0.5	0.5	UG/L	200	
524.2 TVOC	11/20/2019	9.13	0	UG/L	200	
Carbon tetrachloride	11/20/2019	0.36	0.5	UG/L	200	J
Chloroform	11/20/2019	1.5	0.5	UG/L	200	
Tetrachloroethylene	11/20/2019	4.7	0.5	UG/L	200	
Trichloroethylene	11/20/2019	0.67	0.5	UG/L	200	
1,1,1-Trichloroethane	5/7/2019	2.1	0.5	UG/L	200	
1,1-Dichloroethylene	5/7/2019	0.85	0.5	UG/L	200	
524.2 TVOC	5/7/2019	13.24	0	UG/L	200	
Chloroform	5/7/2019	2.7	0.5	UG/L	200	
Tetrachloroethylene	5/7/2019	6.8	0.5	UG/L	200	
Trichloroethylene	5/7/2019	0.79	0.5	UG/L	200	
1,1,1-Trichloroethane	12/7/2018	3	0.5	UG/L	200	
1,1-Dichloroethane	12/7/2018	0.34	0.5	UG/L	200	J
1,1-Dichloroethylene	12/7/2018	1.3	0.5	UG/L	200	
1,2-Dichloroethane	12/7/2018	0.26	0.5	UG/L	200	J
524.2 TVOC	12/7/2018	19.7	0	UG/L	200	
Carbon tetrachloride	12/7/2018	0.53	0.5	UG/L	200	
Chloroform	12/7/2018	6.4	0.5	UG/L	200	
Dichlorodifluoromethane	12/7/2018	0.36	0.5	UG/L	200	J
Tetrachloroethylene	12/7/2018	6.6	0.5	UG/L	200	
Trichloroethylene	12/7/2018	0.91	0.5	UG/L	200	
1,1,1-Trichloroethane	8/17/2018	2.2	0.5	UG/L	200	
1,1-Dichloroethane	8/17/2018	0.4	0.5	UG/L	200	J
1,1-Dichloroethylene	8/17/2018	1	0.5	UG/L	200	
1,2-Dichloroethane	8/17/2018	0.22	0.5	UG/L	200	J
524.2 TVOC	8/17/2018	16.94	0	UG/L	200	
Carbon tetrachloride	8/17/2018	0.4	0.5	UG/L	200	J
Chloroform	8/17/2018	4.6	0.5	UG/L	200	
Dichlorodifluoromethane	8/17/2018	0.36	0.5	UG/L	200	J

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Tetrachloroethylene	8/17/2018	7	0.5	UG/L	200	
Trichloroethylene	8/17/2018	0.76	0.5	UG/L	200	
1,1,1-Trichloroethane	6/5/2018	2.3	0.5	UG/L	200	
1,1-Dichloroethane	6/5/2018	0.33	0.5	UG/L	200	J
1,1-Dichloroethylene	6/5/2018	0.88	0.5	UG/L	200	
524.2 TVOC	6/5/2018	15.18	0	UG/L	200	
Carbon tetrachloride	6/5/2018	0.47	0.5	UG/L	200	J
Chloroform	6/5/2018	4.5	0.5	UG/L	200	
Dichlorodifluoromethane	6/5/2018	0.18	0.5	UG/L	200	J
Tetrachloroethylene	6/5/2018	5.6	0.5	UG/L	200	
Trichloroethylene	6/5/2018	0.77	0.5	UG/L	200	
Trichlorofluoromethane	6/5/2018	0.15	0.5	UG/L	200	J
1,1,1-Trichloroethane	1/22/2018	2.2	0.5	UG/L	200	
1,1-Dichloroethane	1/22/2018	0.28	0.5	UG/L	200	J
1,1-Dichloroethylene	1/22/2018	0.74	0.5	UG/L	200	
524.2 TVOC	1/22/2018	14.67	0	UG/L	200	
Carbon tetrachloride	1/22/2018	0.43	0.5	UG/L	200	J
Chloroform	1/22/2018	3.2	0.5	UG/L	200	
Dichlorodifluoromethane	1/22/2018	0.16	0.5	UG/L	200	J
Tetrachloroethylene	1/22/2018	6.9	0.5	UG/L	200	
Trichloroethylene	1/22/2018	0.62	0.5	UG/L	200	
Trichlorofluoromethane	1/22/2018	0.14	0.5	UG/L	200	J
1,1,1-Trichloroethane	11/13/2017	2.7	0.5	UG/L	200	
1,1-Dichloroethane	11/13/2017	0.32	0.5	UG/L	200	J
1,1-Dichloroethylene	11/13/2017	0.86	0.5	UG/L	200	
1,2-Dichloroethane	11/13/2017	0.68	0.5	UG/L	200	
524.2 TVOC	11/13/2017	18.72	0	UG/L	200	
Carbon tetrachloride	11/13/2017	0.55	0.5	UG/L	200	
Chloroform	11/13/2017	3.3	0.5	UG/L	200	
Dichlorodifluoromethane	11/13/2017	0.26	0.5	UG/L	200	J
Tetrachloroethylene	11/13/2017	9.1	0.5	UG/L	200	
Trichloroethylene	11/13/2017	0.7	0.5	UG/L	200	
Trichlorofluoromethane	11/13/2017	0.25	0.5	UG/L	200	J
1,1,1-Trichloroethane	8/16/2017	2.7	0.5	UG/L	200	
1,1-Dichloroethane	8/16/2017	0.22	0.5	UG/L	200	J
1,1-Dichloroethylene	8/16/2017	0.9	0.5	UG/L	200	
524.2 TVOC	8/16/2017	16.89	0	UG/L	200	
Carbon tetrachloride	8/16/2017	0.45	0.5	UG/L	200	J
Chloroform	8/16/2017	2.3	0.5	UG/L	200	
Dichlorodifluoromethane	8/16/2017	0.15	0.5	UG/L	200	J
Tetrachloroethylene	8/16/2017	9.6	0.5	UG/L	200	
Trichloroethylene	8/16/2017	0.57	0.5	UG/L	200	

Appendix 1
North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,1-Trichloroethane	5/11/2017	3.1	0.5	UG/L	200	
1,1-Dichloroethane	5/11/2017	0.21	0.5	UG/L	200	J
1,1-Dichloroethylene	5/11/2017	1.1	0.5	UG/L	200	
524.2 TVOC	5/11/2017	17.78	0	UG/L	200	
Carbon tetrachloride	5/11/2017	0.41	0.5	UG/L	200	J
Chloroform	5/11/2017	1.8	0.5	UG/L	200	
Dichlorodifluoromethane	5/11/2017	0.18	0.5	UG/L	200	J
Tetrachloroethylene	5/11/2017	9.9	0.5	UG/L	200	
Trichloroethylene	5/11/2017	0.56	0.5	UG/L	200	
Trichlorofluoromethane	5/11/2017	0.52	0.5	UG/L	200	
1,1,1-Trichloroethane	1/25/2017	2.6	0.5	UG/L	200	
1,1-Dichloroethane	1/25/2017	0.14	0.5	UG/L	200	J
1,1-Dichloroethylene	1/25/2017	0.85	0.5	UG/L	200	
524.2 TVOC	1/25/2017	14.06	0	UG/L	200	
Carbon tetrachloride	1/25/2017	0.33	0.5	UG/L	200	J
Chloroform	1/25/2017	1.3	0.5	UG/L	200	
Dichlorodifluoromethane	1/25/2017	0.18	0.5	UG/L	200	J
Tetrachloroethylene	1/25/2017	8.1	0.5	UG/L	200	
Trichloroethylene	1/25/2017	0.43	0.5	UG/L	200	J
Trichlorofluoromethane	1/25/2017	0.13	0.5	UG/L	200	J
1,1,1-Trichloroethane	11/15/2016	2	0.5	UG/L	200	
1,1-Dichloroethane	11/15/2016	0.1	0.5	UG/L	200	J
1,1-Dichloroethylene	11/15/2016	0.68	0.5	UG/L	200	
524.2 TVOC	11/15/2016	14.81	0	UG/L	200	
Carbon tetrachloride	11/15/2016	0.3	0.5	UG/L	200	J
Chloroform	11/15/2016	1.5	0.5	UG/L	200	
Dichlorodifluoromethane	11/15/2016	0.22	0.5	UG/L	200	J
Tetrachloroethylene	11/15/2016	9.6	0.5	UG/L	200	
Trichloroethylene	11/15/2016	0.41	0.5	UG/L	200	J
1,1,1-Trichloroethane	8/3/2016	2.3	0.5	UG/L	220	
1,1-Dichloroethane	8/3/2016	0.071	0.5	UG/L	220	J
1,1-Dichloroethylene	8/3/2016	0.74	0.5	UG/L	220	
524.2 TVOC	8/3/2016	16.721	0	UG/L	220	
Carbon tetrachloride	8/3/2016	0.32	0.5	UG/L	220	J
Chloroform	8/3/2016	1.7	0.5	UG/L	220	
Dichlorodifluoromethane	8/3/2016	0.16	0.5	UG/L	220	J
Tetrachloroethylene	8/3/2016	11	0.5	UG/L	220	
Trichloroethylene	8/3/2016	0.43	0.5	UG/L	220	J
1,1,1-Trichloroethane	5/3/2016	2.4	0.5	UG/L	200	
1,1-Dichloroethane	5/3/2016	0.087	0.5	UG/L	200	J
1,1-Dichloroethylene	5/3/2016	0.64	0.5	UG/L	200	
524.2 TVOC	5/3/2016	14.757	0	UG/L	200	

Appendix 1
North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Carbon tetrachloride	5/3/2016	0.41	0.5	UG/L	200	J
Chloroform	5/3/2016	1.4	0.5	UG/L	200	
Dichlorodifluoromethane	5/3/2016	0.17	0.5	UG/L	200	J
Tetrachloroethylene	5/3/2016	9.2	0.5	UG/L	200	
Trichloroethylene	5/3/2016	0.45	0.5	UG/L	200	J
1,1,1-Trichloroethane	2/23/2016	2.7	0.5	UG/L	200	
1,1-Dichloroethane	2/23/2016	0.11	0.5	UG/L	200	J
1,1-Dichloroethylene	2/23/2016	0.93	0.5	UG/L	200	
524.2 TVOC	2/23/2016	14.59	0	UG/L	200	
Carbon tetrachloride	2/23/2016	0.45	0.5	UG/L	200	J
Chloroform	2/23/2016	1.2	0.5	UG/L	200	
Dichlorodifluoromethane	2/23/2016	0.21	0.5	UG/L	200	J
Tetrachloroethylene	2/23/2016	8.3	0.5	UG/L	200	
Trichloroethylene	2/23/2016	0.57	0.5	UG/L	200	
Trichlorofluoromethane	2/23/2016	0.12	0.5	UG/L	200	J

Site ID : 000-475

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
524.2 TVOC	11/20/2019	1.81	0	UG/L	197	
Carbon tetrachloride	11/20/2019	0.21	0.5	UG/L	197	J
Chloroform	11/20/2019	1.6	0.5	UG/L	197	
524.2 TVOC	12/10/2018	1.85	0	UG/L	197	
Carbon tetrachloride	12/10/2018	0.35	0.5	UG/L	197	J
Chloroform	12/10/2018	1.5	0.5	UG/L	197	
524.2 TVOC	8/20/2018	1.74	0	UG/L	197	
Carbon tetrachloride	8/20/2018	0.34	0.5	UG/L	197	J
Chloroform	8/20/2018	1.4	0.5	UG/L	197	
524.2 TVOC	6/6/2018	1.83	0	UG/L	197	
Carbon tetrachloride	6/6/2018	0.53	0.5	UG/L	197	
Chloroform	6/6/2018	1.3	0.5	UG/L	197	
524.2 TVOC	1/22/2018	1.72	0	UG/L	197	
Carbon tetrachloride	1/22/2018	0.32	0.5	UG/L	197	J
Chloroform	1/22/2018	1.4	0.5	UG/L	197	
524.2 TVOC	11/13/2017	1.94	0	UG/L	197	
Carbon tetrachloride	11/13/2017	0.54	0.5	UG/L	197	
Chloroform	11/13/2017	1.4	0.5	UG/L	197	
524.2 TVOC	8/16/2017	1.47	0	UG/L	197	
Carbon tetrachloride	8/16/2017	0.37	0.5	UG/L	197	J
Chloroform	8/16/2017	1.1	0.5	UG/L	197	
524.2 TVOC	5/9/2017	1.81	0	UG/L	197	
Carbon tetrachloride	5/9/2017	0.51	0.5	UG/L	197	

Appendix 1
North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Chloroform	5/9/2017	1.3	0.5	UG/L	197	
524.2 TVOC	1/24/2017	2.39	0	UG/L	197	
Carbon tetrachloride	1/24/2017	0.46	0.5	UG/L	197	J
Chloroform	1/24/2017	1.2	0.5	UG/L	197	
Toluene	1/24/2017	0.73	0.5	UG/L	197	
524.2 TVOC	11/17/2016	1.58	0	UG/L	197	
Carbon tetrachloride	11/17/2016	0.38	0.5	UG/L	197	J
Chloroform	11/17/2016	1.2	0.5	UG/L	197	
524.2 TVOC	8/3/2016	1.36	0	UG/L	197	
Carbon tetrachloride	8/3/2016	0.26	0.5	UG/L	197	J
Chloroform	8/3/2016	1.1	0.5	UG/L	197	
1,1,1-Trichloroethane	5/4/2016	0.088	0.5	UG/L	197	J
524.2 TVOC	5/4/2016	1.638	0	UG/L	197	
Carbon tetrachloride	5/4/2016	0.25	0.5	UG/L	197	J
Chloroform	5/4/2016	1.3	0.5	UG/L	197	
1,1,1-Trichloroethane	2/23/2016	0.071	0.5	UG/L	197	J
524.2 TVOC	2/23/2016	1.721	0	UG/L	197	
Carbon tetrachloride	2/23/2016	0.22	0.5	UG/L	197	J
Chloroform	2/23/2016	1.1	0.5	UG/L	197	
Toluene	2/23/2016	0.33	0.5	UG/L	197	J

Site ID : 000-476

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,1-Trichloroethane	11/18/2019	1.4	0.5	UG/L	205	
1,1-Dichloroethylene	11/18/2019	1.2	0.5	UG/L	205	
524.2 TVOC	11/18/2019	3.7	0	UG/L	205	
Chloroform	11/18/2019	1.1	0.5	UG/L	205	
1,1,1-Trichloroethane	12/6/2018	0.37	0.5	UG/L	205	J
1,1-Dichloroethylene	12/6/2018	0.32	0.5	UG/L	205	J
524.2 TVOC	12/6/2018	1.89	0	UG/L	205	
Chloroform	12/6/2018	1.2	0.5	UG/L	205	
524.2 TVOC	11/14/2017	1	0	UG/L	205	
Chloroform	11/14/2017	1	0.5	UG/L	205	
524.2 TVOC	11/14/2016	0.68	0	UG/L	205	
Chloroform	11/14/2016	0.68	0.5	UG/L	205	

Site ID : 800-63

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
524.2 TVOC	11/18/2019	1.92	0	UG/L	205	
Chloroform	11/18/2019	1.1	0.5	UG/L	205	

Appendix 1
North Street Monitoring Well VOC Detections, 2016 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Trichloroethylene	11/18/2019	0.82	0.5	UG/L	205	
524.2 TVOC	5/6/2019	1.91	0	UG/L	206	
Chloroform	5/6/2019	0.96	0.5	UG/L	206	
Trichloroethylene	5/6/2019	0.95	0.5	UG/L	206	
524.2 TVOC	12/7/2018	2.47	0	UG/L	206	
Carbon tetrachloride	12/7/2018	0.32	0.5	UG/L	206	J
Chloroform	12/7/2018	0.95	0.5	UG/L	206	
Trichloroethylene	12/7/2018	1.2	0.5	UG/L	206	
1,1,1-Trichloroethane	5/31/2018	0.18	0.5	UG/L	206	J
1,1,2,2-Tetrachloroethane	5/31/2018	0.18	0.5	UG/L	206	J
524.2 TVOC	5/31/2018	3.21	0	UG/L	206	
Carbon tetrachloride	5/31/2018	0.31	0.5	UG/L	206	J
Chloroform	5/31/2018	0.99	0.5	UG/L	206	
Methyl tert-butyl ether	5/31/2018	0.25	0.5	UG/L	206	J
Trichloroethylene	5/31/2018	1.3	0.5	UG/L	206	
1,1,1-Trichloroethane	11/13/2017	0.21	0.5	UG/L	206	J
1,1,2,2-Tetrachloroethane	11/13/2017	0.25	0.5	UG/L	206	J
524.2 TVOC	11/13/2017	4.58	0	UG/L	206	
Carbon tetrachloride	11/13/2017	0.32	0.5	UG/L	206	J
Chloroform	11/13/2017	1.6	0.5	UG/L	206	
Trichloroethylene	11/13/2017	2.2	0.5	UG/L	206	
1,1,2,2-Tetrachloroethane	5/8/2017	0.16	0.5	UG/L	206	J
524.2 TVOC	5/8/2017	3.82	0	UG/L	206	
Carbon tetrachloride	5/8/2017	0.33	0.5	UG/L	206	J
Chloroform	5/8/2017	0.83	0.5	UG/L	206	
Trichloroethylene	5/8/2017	2.5	0.5	UG/L	206	
1,4-Dioxane	1/18/2017	0.375	0.2	UG/L	206	
1,1,1-Trichloroethane	11/14/2016	0.25	0.5	UG/L	206	J
1,1,2,2-Tetrachloroethane	11/14/2016	0.27	0.5	UG/L	206	J
524.2 TVOC	11/14/2016	5.41	0	UG/L	206	
Carbon tetrachloride	11/14/2016	0.51	0.5	UG/L	206	
Chloroform	11/14/2016	0.98	0.5	UG/L	206	
Trichloroethylene	11/14/2016	3.4	0.5	UG/L	206	
1,1,1-Trichloroethane	5/2/2016	0.26	0.5	UG/L	206	J
1,1,2,2-Tetrachloroethane	5/2/2016	0.3	0.5	UG/L	206	J
524.2 TVOC	5/2/2016	6.23	0	UG/L	206	
Carbon tetrachloride	5/2/2016	0.37	0.5	UG/L	206	J
Chloroform	5/2/2016	1.8	0.5	UG/L	206	
Trichloroethylene	5/2/2016	3.5	0.5	UG/L	206	

J = Estimated value.

APPENDIX 2
North Street VOC Detections in Extraction Wells
2013 through 2019

Appendix 2
North Street Extraction Well VOC Detections, 2013 through 2019

Site ID : 000-471 (Extraction Well NS-1)

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,1-Trichloroethane	7/17/2019	0.28	0.5	UG/L	0	J
1,1,2,2-Tetrachloroethane	7/17/2019	0.17	0.5	UG/L	0	J
524.2 TVOC	7/17/2019	3.83	0	UG/L	0	
Carbon tetrachloride	7/17/2019	1.25	0.5	UG/L	0	
Chloroform	7/17/2019	0.85	0.5	UG/L	0	
Tetrachloroethylene	7/17/2019	0.21	0.5	UG/L	0	J
Trichloroethylene	7/17/2019	1.07	0.5	UG/L	0	
524.2 TVOC	4/3/2019	2.96	0	UG/L	0	
Carbon tetrachloride	4/3/2019	1.2	0.5	UG/L	0	
Chloroform	4/3/2019	0.76	0.5	UG/L	0	
Trichloroethylene	4/3/2019	1	0.5	UG/L	0	
1,1,1-Trichloroethane	1/18/2019	0.27	0.5	UG/L	0	J
524.2 TVOC	1/18/2019	3.76	0	UG/L	0	
Carbon tetrachloride	1/18/2019	1.6	0.5	UG/L	0	
Chloroform	1/18/2019	0.81	0.5	UG/L	0	
Tetrachloroethylene	1/18/2019	0.23	0.5	UG/L	0	J
Trichloroethylene	1/18/2019	0.85	0.5	UG/L	0	
1,1,1-Trichloroethane	10/5/2018	0.35	0.5	UG/L	0	J
524.2 TVOC	10/5/2018	3.95	0	UG/L	0	
Carbon tetrachloride	10/5/2018	1.7	0.5	UG/L	0	
Chloroform	10/5/2018	0.91	0.5	UG/L	0	
Trichloroethylene	10/5/2018	0.99	0.5	UG/L	0	
1,1,1-Trichloroethane	7/5/2018	0.39	0.5	UG/L	0	J
1,1-Dichloroethane	7/5/2018	0.12	0.5	UG/L	0	J
1,1-Dichloroethylene	7/5/2018	0.14	0.5	UG/L	0	J
524.2 TVOC	7/5/2018	4.5	0	UG/L	0	
Carbon tetrachloride	7/5/2018	1.7	0.5	UG/L	0	
Chloroform	7/5/2018	0.87	0.5	UG/L	0	
Tetrachloroethylene	7/5/2018	0.28	0.5	UG/L	0	J
Trichloroethylene	7/5/2018	1	0.5	UG/L	0	
1,1,1-Trichloroethane	4/3/2018	0.32	0.5	UG/L	0	J
1,1-Dichloroethylene	4/3/2018	0.12	0.5	UG/L	0	J
524.2 TVOC	4/3/2018	3.9	0	UG/L	0	
Carbon tetrachloride	4/3/2018	1.6	0.5	UG/L	0	
Chloroform	4/3/2018	0.67	0.5	UG/L	0	
Tetrachloroethylene	4/3/2018	0.22	0.5	UG/L	0	J
Trichloroethylene	4/3/2018	0.97	0.5	UG/L	0	
1,1,1-Trichloroethane	1/10/2018	0.33	0.5	UG/L	0	J
1,1,2,2-Tetrachloroethane	1/10/2018	0.22	0.5	UG/L	0	J

Appendix 2
North Street Extraction Well VOC Detections, 2013 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
524.2 TVOC	1/10/2018	4.05	0	UG/L	0	
Carbon tetrachloride	1/10/2018	1.8	0.5	UG/L	0	
Chloroform	1/10/2018	0.78	0.5	UG/L	0	
Trichloroethylene	1/10/2018	0.92	0.5	UG/L	0	
1,1,1-Trichloroethane	12/5/2017	0.35	0.5	UG/L	0	J
1,1,2,2-Tetrachloroethane	12/5/2017	0.15	0.5	UG/L	0	J
1,1-Dichloroethane	12/5/2017	0.077	0.5	UG/L	0	J
1,1-Dichloroethylene	12/5/2017	0.13	0.5	UG/L	0	J
524.2 TVOC	12/5/2017	4.727	0	UG/L	0	
Carbon tetrachloride	12/5/2017	1.9	0.5	UG/L	0	
Chloroform	12/5/2017	0.77	0.5	UG/L	0	
Tetrachloroethylene	12/5/2017	0.25	0.5	UG/L	0	J
Trichloroethylene	12/5/2017	1.1	0.5	UG/L	0	
1,1-Dichloroethane	1/3/2017	0.11	0.5	UG/L	0	J
524.2 TVOC	1/3/2017	1.29	0	UG/L	0	
Carbon tetrachloride	1/3/2017	0.46	0.5	UG/L	0	J
Chloroform	1/3/2017	0.4	0.5	UG/L	0	J
Trichloroethylene	1/3/2017	0.32	0.5	UG/L	0	J
1,1,1-Trichloroethane	10/3/2016	0.19	0.5	UG/L	0	J
1,1-Dichloroethane	10/3/2016	0.082	0.5	UG/L	0	J
524.2 TVOC	10/3/2016	2.102	0	UG/L	0	
Carbon tetrachloride	10/3/2016	0.69	0.5	UG/L	0	
Chloroform	10/3/2016	0.68	0.5	UG/L	0	
Trichloroethylene	10/3/2016	0.46	0.5	UG/L	0	J
1,1,2,2-Tetrachloroethane	7/7/2016	0.12	0.5	UG/L	0	J
524.2 TVOC	7/7/2016	2.19	0	UG/L	0	
Carbon tetrachloride	7/7/2016	0.91	0.5	UG/L	0	
Chloroform	7/7/2016	0.68	0.5	UG/L	0	
Trichloroethylene	7/7/2016	0.48	0.5	UG/L	0	J
1,1,1-Trichloroethane	4/4/2016	0.24	0.5	UG/L	0	J
1,1-Dichloroethane	4/4/2016	0.33	0.5	UG/L	0	J
1,1-Dichloroethylene	4/4/2016	0.1	0.5	UG/L	0	J
524.2 TVOC	4/4/2016	2.81	0	UG/L	0	
Carbon tetrachloride	4/4/2016	0.83	0.5	UG/L	0	
Chloroform	4/4/2016	0.86	0.5	UG/L	0	
Trichloroethylene	4/4/2016	0.45	0.5	UG/L	0	J
1,1,1-Trichloroethane	1/4/2016	0.27	0.5	UG/L	0	J
1,1-Dichloroethane	1/4/2016	0.32	0.5	UG/L	0	J
1,1-Dichloroethylene	1/4/2016	0.091	0.5	UG/L	0	J
524.2 TVOC	1/4/2016	2.551	0	UG/L	0	
Carbon tetrachloride	1/4/2016	0.69	0.5	UG/L	0	
Chloroform	1/4/2016	0.81	0.5	UG/L	0	

Appendix 2
North Street Extraction Well VOC Detections, 2013 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Trichloroethylene	1/4/2016	0.37	0.5	UG/L	0	J
1,1,1-Trichloroethane	10/5/2015	0.22	0.5	UG/L	0	J
1,1-Dichloroethane	10/5/2015	0.27	0.5	UG/L	0	J
1,1-Dichloroethylene	10/5/2015	0.084	0.5	UG/L	0	J
524.2 TVOC	10/5/2015	2.314	0	UG/L	0	
Carbon tetrachloride	10/5/2015	0.68	0.5	UG/L	0	
Chloroform	10/5/2015	0.7	0.5	UG/L	0	
Trichloroethylene	10/5/2015	0.36	0.5	UG/L	0	J
1,1,1-Trichloroethane	7/8/2015	0.34	0.5	UG/L	0	J
1,1,2,2-Tetrachloroethane	7/8/2015	0.2	0.5	UG/L	0	J
1,1-Dichloroethane	7/8/2015	0.33	0.5	UG/L	0	J
1,1-Dichloroethylene	7/8/2015	0.16	0.5	UG/L	0	J
524.2 TVOC	7/8/2015	3.61	0	UG/L	0	
Carbon tetrachloride	7/8/2015	1.1	0.5	UG/L	0	
Chloroform	7/8/2015	0.94	0.5	UG/L	0	
Trichloroethylene	7/8/2015	0.54	0.5	UG/L	0	
1,1,1-Trichloroethane	4/9/2015	0.34	0.5	UG/L	0	J
1,1,2,2-Tetrachloroethane	4/9/2015	0.11	0.5	UG/L	0	J
1,1-Dichloroethane	4/9/2015	0.18	0.5	UG/L	0	J
524.2 TVOC	4/9/2015	3.15	0	UG/L	0	
Carbon tetrachloride	4/9/2015	1.2	0.5	UG/L	0	
Chloroform	4/9/2015	0.79	0.5	UG/L	0	
Trichloroethylene	4/9/2015	0.53	0.5	UG/L	0	
1,1,1-Trichloroethane	1/9/2015	0.31	0.5	UG/L	0	J
1,1-Dichloroethane	1/9/2015	0.27	0.5	UG/L	0	J
1,1-Dichloroethylene	1/9/2015	0.14	0.5	UG/L	0	J
524.2 TVOC	1/9/2015	3.1	0	UG/L	0	
Carbon tetrachloride	1/9/2015	1.1	0.5	UG/L	0	
Chloroform	1/9/2015	0.83	0.5	UG/L	0	
Trichloroethylene	1/9/2015	0.45	0.5	UG/L	0	J
1,1,1-Trichloroethane	10/1/2014	0.29	0.5	UG/L	0	J
1,1-Dichloroethane	10/1/2014	0.18	0.5	UG/L	0	J
1,1-Dichloroethylene	10/1/2014	0.13	0.5	UG/L	0	J
524.2 TVOC	10/1/2014	3.2	0	UG/L	0	
Carbon tetrachloride	10/1/2014	1.2	0.5	UG/L	0	
Chloroform	10/1/2014	0.87	0.5	UG/L	0	
Trichloroethylene	10/1/2014	0.53	0.5	UG/L	0	
1,1,1-Trichloroethane	7/9/2014	0.23	0.5	UG/L	0	J
1,1-Dichloroethane	7/9/2014	0.1	0.5	UG/L	0	J
1,1-Dichloroethylene	7/9/2014	0.097	0.5	UG/L	0	J
524.2 TVOC	7/9/2014	2.807	0	UG/L	0	
Carbon tetrachloride	7/9/2014	0.99	0.5	UG/L	0	

Appendix 2
North Street Extraction Well VOC Detections, 2013 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Chloroform	7/9/2014	0.83	0.5	UG/L	0	
Trichloroethylene	7/9/2014	0.56	0.5	UG/L	0	
1,1,1-Trichloroethane	4/1/2014	0.57	0.5	UG/L	0	
1,1-Dichloroethylene	4/1/2014	0.23	0.5	UG/L	0	J
524.2 TVOC	4/1/2014	7.58	0	UG/L	0	
Carbon tetrachloride	4/1/2014	4.1	0.5	UG/L	0	
Chloroform	4/1/2014	1.1	0.5	UG/L	0	
Tetrachloroethylene	4/1/2014	0.18	0.5	UG/L	0	J
Trichloroethylene	4/1/2014	1.4	0.5	UG/L	0	
1,1,1-Trichloroethane	1/9/2014	0.26	0.5	UG/L	0	J
1,1,2,2-Tetrachloroethane	1/9/2014	0.18	0.5	UG/L	0	J
524.2 TVOC	1/9/2014	3.76	0	UG/L	0	
Carbon tetrachloride	1/9/2014	1.5	0.5	UG/L	0	
Chloroform	1/9/2014	0.9	0.5	UG/L	0	
Tetrachloroethylene	1/9/2014	0.2	0.5	UG/L	0	J
Trichloroethylene	1/9/2014	0.72	0.5	UG/L	0	
1,1,1-Trichloroethane	10/2/2013	0.2	0.5	UG/L	0	J
1,1,2,2-Tetrachloroethane	10/2/2013	0.2	0.5	UG/L	0	J
1,1-Dichloroethylene	10/2/2013	0.089	0.5	UG/L	0	J
524.2 TVOC	10/2/2013	3.269	0	UG/L	0	
Carbon tetrachloride	10/2/2013	1.1	0.5	UG/L	0	
Chloroform	10/2/2013	0.95	0.5	UG/L	0	
Methylene chloride	10/2/2013	0.17	0.5	UG/L	0	J
Trichloroethylene	10/2/2013	0.56	0.5	UG/L	0	
1,1,1-Trichloroethane	7/1/2013	0.39	0.5	UG/L	0	J
1,1,2,2-Tetrachloroethane	7/1/2013	0.26	0.5	UG/L	0	J
1,1-Dichloroethane	7/1/2013	0.25	0.5	UG/L	0	J
1,1-Dichloroethylene	7/1/2013	0.19	0.5	UG/L	0	J
524.2 TVOC	7/1/2013	4.43	0	UG/L	0	
Carbon tetrachloride	7/1/2013	1.6	0.5	UG/L	0	
Chloroform	7/1/2013	1	0.5	UG/L	0	
Methyl chloride	7/1/2013	0.11	0.5	UG/L	0	J
Trichloroethylene	7/1/2013	0.63	0.5	UG/L	0	
1,1,1-Trichloroethane	4/1/2013	0.41	0.5	UG/L	0	J
1,1,2,2-Tetrachloroethane	4/1/2013	0.17	0.5	UG/L	0	J
1,1-Dichloroethane	4/1/2013	0.17	0.5	UG/L	0	J
1,1-Dichloroethylene	4/1/2013	0.17	0.5	UG/L	0	J
524.2 TVOC	4/1/2013	4.82	0	UG/L	0	
Carbon tetrachloride	4/1/2013	2.2	0.5	UG/L	0	
Chloroform	4/1/2013	0.98	0.5	UG/L	0	
Trichloroethylene	4/1/2013	0.72	0.5	UG/L	0	
1,1,1-Trichloroethane	1/2/2013	0.38	0.5	UG/L	0	J

Appendix 2
North Street Extraction Well VOC Detections, 2013 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,2,2-Tetrachloroethane	1/2/2013	0.18	0.5	UG/L	0	J
1,1-Dichloroethane	1/2/2013	0.27	0.5	UG/L	0	J
1,1-Dichloroethylene	1/2/2013	0.12	0.5	UG/L	0	J
524.2 TVOC	1/2/2013	4.29	0	UG/L	0	
Carbon tetrachloride	1/2/2013	1.8	0.5	UG/L	0	
Chloroform	1/2/2013	1	0.5	UG/L	0	
Trichloroethylene	1/2/2013	0.54	0.5	UG/L	0	

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Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1,1-Trichloroethane	7/17/2019	3.34	0.5	UG/L	0	
1,1-Dichloroethylene	7/17/2019	1.48	0.5	UG/L	0	
524.2 TVOC	7/17/2019	12.29	0	UG/L	0	
Carbon tetrachloride	7/17/2019	0.55	0.5	UG/L	0	
Chloroform	7/17/2019	2.27	0.5	UG/L	0	
Tetrachloroethylene	7/17/2019	4.44	0.5	UG/L	0	
Trichloroethylene	7/17/2019	0.21	0.5	UG/L	0	J
1,1,1-Trichloroethane	4/3/2019	3.6	0.5	UG/L	0	
1,1-Dichloroethylene	4/3/2019	1.5	0.5	UG/L	0	
524.2 TVOC	4/3/2019	13.78	0	UG/L	0	
Carbon tetrachloride	4/3/2019	0.58	0.5	UG/L	0	
Chloroform	4/3/2019	2	0.5	UG/L	0	
Tetrachloroethylene	4/3/2019	6.1	0.5	UG/L	0	
1,1,1-Trichloroethane	1/18/2019	4.26	0.5	UG/L	0	
1,1-Dichloroethane	1/18/2019	0.21	0.5	UG/L	0	J
1,1-Dichloroethylene	1/18/2019	1.79	0.5	UG/L	0	
524.2 TVOC	1/18/2019	13.86	0	UG/L	0	
Carbon tetrachloride	1/18/2019	0.8	0.5	UG/L	0	
Chloroform	1/18/2019	2.02	0.5	UG/L	0	
Tetrachloroethylene	1/18/2019	4.78	0.5	UG/L	0	
1,1,1-Trichloroethane	10/5/2018	4.1	0.5	UG/L	0	
1,1-Dichloroethane	10/5/2018	0.17	0.5	UG/L	0	J
1,1-Dichloroethylene	10/5/2018	1.3	0.5	UG/L	0	
524.2 TVOC	10/5/2018	13.54	0	UG/L	0	
Carbon tetrachloride	10/5/2018	0.79	0.5	UG/L	0	
Chloroform	10/5/2018	2.1	0.5	UG/L	0	
Dichlorodifluoromethane	10/5/2018	0.38	0.5	UG/L	0	J
Tetrachloroethylene	10/5/2018	4.7	0.5	UG/L	0	
1,1,1-Trichloroethane	7/5/2018	4	0.5	UG/L	0	
1,1-Dichloroethane	7/5/2018	0.24	0.5	UG/L	0	J
1,1-Dichloroethylene	7/5/2018	1.5	0.5	UG/L	0	

Appendix 2
North Street Extraction Well VOC Detections, 2013 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
524.2 TVOC	7/5/2018	14.31	0	UG/L	0	
Carbon tetrachloride	7/5/2018	0.77	0.5	UG/L	0	
Chloroform	7/5/2018	2	0.5	UG/L	0	
Tetrachloroethylene	7/5/2018	5.8	0.5	UG/L	0	
1,1,1-Trichloroethane	4/3/2018	3.7	0.5	UG/L	0	
1,1-Dichloroethane	4/3/2018	0.16	0.5	UG/L	0	J
1,1-Dichloroethylene	4/3/2018	1.5	0.5	UG/L	0	
524.2 TVOC	4/3/2018	12.89	0	UG/L	0	
Carbon tetrachloride	4/3/2018	0.57	0.5	UG/L	0	
Chloroform	4/3/2018	1.6	0.5	UG/L	0	
Dichlorodifluoromethane	4/3/2018	0.26	0.5	UG/L	0	J
Tetrachloroethylene	4/3/2018	5.1	0.5	UG/L	0	
1,1,1-Trichloroethane	1/10/2018	4.5	0.5	UG/L	0	
1,1-Dichloroethane	1/10/2018	0.15	0.5	UG/L	0	J
1,1-Dichloroethylene	1/10/2018	1.9	0.5	UG/L	0	
524.2 TVOC	1/10/2018	13.58	0	UG/L	0	
Carbon tetrachloride	1/10/2018	0.73	0.5	UG/L	0	
Chloroform	1/10/2018	1.9	0.5	UG/L	0	
Tetrachloroethylene	1/10/2018	4.4	0.5	UG/L	0	
1,1,1-Trichloroethane	10/11/2017	5.2	0.5	UG/L	0	
1,1-Dichloroethane	10/11/2017	0.19	0.5	UG/L	0	J
1,1-Dichloroethylene	10/11/2017	2.1	0.5	UG/L	0	
524.2 TVOC	10/11/2017	14.68	0	UG/L	0	
Carbon tetrachloride	10/11/2017	0.79	0.5	UG/L	0	
Chloroform	10/11/2017	1.8	0.5	UG/L	0	
Tetrachloroethylene	10/11/2017	4.6	0.5	UG/L	0	
1,1,1-Trichloroethane	7/13/2017	4.5	0.5	UG/L	0	
1,1-Dichloroethane	7/13/2017	0.24	0.5	UG/L	0	J
1,1-Dichloroethylene	7/13/2017	2.2	0.5	UG/L	0	
524.2 TVOC	7/13/2017	13.01	0	UG/L	0	
Carbon tetrachloride	7/13/2017	0.67	0.5	UG/L	0	
Chloroform	7/13/2017	1.6	0.5	UG/L	0	
Tetrachloroethylene	7/13/2017	3.8	0.5	UG/L	0	
1,1,1-Trichloroethane	4/11/2017	5.4	0.5	UG/L	0	
1,1-Dichloroethane	4/11/2017	0.3	0.5	UG/L	0	J
1,1-Dichloroethylene	4/11/2017	2.3	0.5	UG/L	0	
524.2 TVOC	4/11/2017	14.67	0	UG/L	0	
Carbon tetrachloride	4/11/2017	0.9	0.5	UG/L	0	
Chloroform	4/11/2017	1.8	0.5	UG/L	0	
Dichlorodifluoromethane	4/11/2017	0.17	0.5	UG/L	0	J
Tetrachloroethylene	4/11/2017	3.8	0.5	UG/L	0	
1,1,1-Trichloroethane	1/3/2017	4.1	0.5	UG/L	0	

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North Street Extraction Well VOC Detections, 2013 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1-Dichloroethane	1/3/2017	0.27	0.5	UG/L	0	J
1,1-Dichloroethylene	1/3/2017	1.6	0.5	UG/L	0	
524.2 TVOC	1/3/2017	11.7	0	UG/L	0	
Carbon tetrachloride	1/3/2017	0.79	0.5	UG/L	0	
Chloroform	1/3/2017	1.6	0.5	UG/L	0	
Dichlorodifluoromethane	1/3/2017	0.14	0.5	UG/L	0	J
Tetrachloroethylene	1/3/2017	3.2	0.5	UG/L	0	
1,1,1-Trichloroethane	10/3/2016	3.9	0.5	UG/L	0	
1,1-Dichloroethane	10/3/2016	0.24	0.5	UG/L	0	J
1,1-Dichloroethylene	10/3/2016	1.5	0.5	UG/L	0	
524.2 TVOC	10/3/2016	12.88	0	UG/L	0	
Carbon tetrachloride	10/3/2016	0.89	0.5	UG/L	0	
Chloroform	10/3/2016	1.9	0.5	UG/L	0	
Dichlorodifluoromethane	10/3/2016	0.15	0.5	UG/L	0	J
Tetrachloroethylene	10/3/2016	4.3	0.5	UG/L	0	
1,1,1-Trichloroethane	7/7/2016	2.7	0.5	UG/L	0	
1,1-Dichloroethane	7/7/2016	0.23	0.5	UG/L	0	J
1,1-Dichloroethylene	7/7/2016	1.1	0.5	UG/L	0	
524.2 TVOC	7/7/2016	9.85	0	UG/L	0	
Carbon tetrachloride	7/7/2016	0.72	0.5	UG/L	0	
Chloroform	7/7/2016	1.7	0.5	UG/L	0	
Tetrachloroethylene	7/7/2016	3.4	0.5	UG/L	0	
1,1,1-Trichloroethane	4/4/2016	2.6	0.5	UG/L	0	
1,1-Dichloroethane	4/4/2016	0.21	0.5	UG/L	0	J
1,1-Dichloroethylene	4/4/2016	0.78	0.5	UG/L	0	
524.2 TVOC	4/4/2016	10.06	0	UG/L	0	
Carbon tetrachloride	4/4/2016	0.79	0.5	UG/L	0	
Chloroform	4/4/2016	1.9	0.5	UG/L	0	
Methyl chloride	4/4/2016	0.18	0.5	UG/L	0	J
Tetrachloroethylene	4/4/2016	3.6	0.5	UG/L	0	
1,1,1-Trichloroethane	1/4/2016	1.6	0.5	UG/L	0	
1,1-Dichloroethane	1/4/2016	0.16	0.5	UG/L	0	J
1,1-Dichloroethylene	1/4/2016	0.3	0.5	UG/L	0	J
524.2 TVOC	1/4/2016	5.46	0	UG/L	0	
Carbon tetrachloride	1/4/2016	0.5	0.5	UG/L	0	
Chloroform	1/4/2016	1.5	0.5	UG/L	0	
Tetrachloroethylene	1/4/2016	1.4	0.5	UG/L	0	
1,1,1-Trichloroethane	10/5/2015	1.4	0.5	UG/L	0	
1,1-Dichloroethane	10/5/2015	0.091	0.5	UG/L	0	J
1,1-Dichloroethylene	10/5/2015	0.56	0.5	UG/L	0	
524.2 TVOC	10/5/2015	5.401	0	UG/L	0	
Carbon tetrachloride	10/5/2015	0.44	0.5	UG/L	0	J

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North Street Extraction Well VOC Detections, 2013 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
Chloroform	10/5/2015	1.3	0.5	UG/L	0	
Methyl chloride	10/5/2015	0.11	0.5	UG/L	0	J
Tetrachloroethylene	10/5/2015	1.5	0.5	UG/L	0	
1,1,1-Trichloroethane	7/8/2015	0.9	0.5	UG/L	0	
1,1-Dichloroethylene	7/8/2015	0.47	0.5	UG/L	0	J
524.2 TVOC	7/8/2015	5.18	0	UG/L	0	
Carbon tetrachloride	7/8/2015	0.61	0.5	UG/L	0	
Chloroform	7/8/2015	1.9	0.5	UG/L	0	
Tetrachloroethylene	7/8/2015	1.3	0.5	UG/L	0	
1,1,1-Trichloroethane	4/9/2015	1	0.5	UG/L	0	
1,1-Dichloroethane	4/9/2015	0.11	0.5	UG/L	0	J
1,1-Dichloroethylene	4/9/2015	0.21	0.5	UG/L	0	J
524.2 TVOC	4/9/2015	4.912	0	UG/L	0	
Chloroform	4/9/2015	1.6	0.5	UG/L	0	
Dichlorodifluoromethane	4/9/2015	0.092	0.5	UG/L	0	J
Tetrachloroethylene	4/9/2015	1.9	0.5	UG/L	0	
1,1,1-Trichloroethane	1/9/2015	1.3	0.5	UG/L	0	
1,1-Dichloroethane	1/9/2015	0.14	0.5	UG/L	0	J
1,1-Dichloroethylene	1/9/2015	0.53	0.5	UG/L	0	
524.2 TVOC	1/9/2015	6.202	0	UG/L	0	
Carbon tetrachloride	1/9/2015	0.24	0.5	UG/L	0	J
Chloroform	1/9/2015	1.8	0.5	UG/L	0	
Dichlorodifluoromethane	1/9/2015	0.092	0.5	UG/L	0	J
Tetrachloroethylene	1/9/2015	2.1	0.5	UG/L	0	
1,1,1-Trichloroethane	10/1/2014	1.7	0.5	UG/L	0	
1,1-Dichloroethane	10/1/2014	0.13	0.5	UG/L	0	J
1,1-Dichloroethylene	10/1/2014	0.73	0.5	UG/L	0	
524.2 TVOC	10/1/2014	8.8	0	UG/L	0	
Carbon tetrachloride	10/1/2014	0.39	0.5	UG/L	0	J
Chloroform	10/1/2014	1.8	0.5	UG/L	0	
Methyl tert-butyl ether	10/1/2014	0.22	0.5	UG/L	0	J
Tetrachloroethylene	10/1/2014	3.6	0.5	UG/L	0	
Trichloroethylene	10/1/2014	0.23	0.5	UG/L	0	J
1,1,1-Trichloroethane	4/1/2014	1.8	0.5	UG/L	0	
1,1-Dichloroethane	4/1/2014	0.13	0.5	UG/L	0	J
1,1-Dichloroethylene	4/1/2014	0.63	0.5	UG/L	0	
524.2 TVOC	4/1/2014	6.54	0	UG/L	0	
Carbon tetrachloride	4/1/2014	0.88	0.5	UG/L	0	
Chloroform	4/1/2014	1.5	0.5	UG/L	0	
Tetrachloroethylene	4/1/2014	1.6	0.5	UG/L	0	
1,1,1-Trichloroethane	1/9/2014	0.83	0.5	UG/L	0	
1,1-Dichloroethane	1/9/2014	0.074	0.5	UG/L	0	J

Appendix 2
North Street Extraction Well VOC Detections, 2013 through 2019

Chemical Name	Sample Date	Value	Detlim	Units	Depth	Qual
1,1-Dichloroethylene	1/9/2014	0.36	0.5	UG/L	0	J
524.2 TVOC	1/9/2014	3.894	0	UG/L	0	
Carbon tetrachloride	1/9/2014	0.6	0.5	UG/L	0	
Chloroform	1/9/2014	1.2	0.5	UG/L	0	
Tetrachloroethylene	1/9/2014	0.83	0.5	UG/L	0	
1,1,1-Trichloroethane	10/2/2013	0.77	0.5	UG/L	0	
1,1-Dichloroethylene	10/2/2013	0.29	0.5	UG/L	0	J
524.2 TVOC	10/2/2013	4.1	0	UG/L	0	
Carbon tetrachloride	10/2/2013	0.83	0.5	UG/L	0	
Chloroform	10/2/2013	1.4	0.5	UG/L	0	
Methylene chloride	10/2/2013	0.17	0.5	UG/L	0	J
Tetrachloroethylene	10/2/2013	0.64	0.5	UG/L	0	
1,1,1-Trichloroethane	7/1/2013	1.1	0.5	UG/L	0	
1,1-Dichloroethane	7/1/2013	0.093	0.5	UG/L	0	J
524.2 TVOC	7/1/2013	4.903	0	UG/L	0	
Carbon tetrachloride	7/1/2013	0.19	0.5	UG/L	0	J
Chloroform	7/1/2013	1.9	0.5	UG/L	0	
Dichlorodifluoromethane	7/1/2013	0.12	0.5	UG/L	0	J
Tetrachloroethylene	7/1/2013	1.5	0.5	UG/L	0	
1,1,1-Trichloroethane	4/1/2013	1.2	0.5	UG/L	0	
1,1-Dichloroethane	4/1/2013	0.14	0.5	UG/L	0	J
1,1-Dichloroethylene	4/1/2013	0.49	0.5	UG/L	0	J
524.2 TVOC	4/1/2013	5.757	0	UG/L	0	
Carbon tetrachloride	4/1/2013	0.24	0.5	UG/L	0	J
Chloroform	4/1/2013	1.9	0.5	UG/L	0	
Methyl chloride	4/1/2013	0.087	0.5	UG/L	0	J
Tetrachloroethylene	4/1/2013	1.7	0.5	UG/L	0	
1,1,1-Trichloroethane	1/2/2013	1.4	0.5	UG/L	0	
1,1-Dichloroethane	1/2/2013	0.11	0.5	UG/L	0	J
1,1-Dichloroethylene	1/2/2013	0.65	0.5	UG/L	0	
524.2 TVOC	1/2/2013	6.477	0	UG/L	0	
Carbon tetrachloride	1/2/2013	0.21	0.5	UG/L	0	J
Chloroform	1/2/2013	1.9	0.5	UG/L	0	
Dichlorodifluoromethane	1/2/2013	0.087	0.5	UG/L	0	J
Tetrachloroethylene	1/2/2013	1.9	0.5	UG/L	0	
Trichloroethylene	1/2/2013	0.22	0.5	UG/L	0	J

J = Estimated value

APPENDIX 3
North Street Monitoring and Extraction Well
Recommended Disposition

Appendix 3
North Street Monitoring, Extraction, and Recharge Well Recommended Disposition

Well ID	Well Type	Screen Depth (feet below grade)	Aquifer	Max VOC Conc. (µg/L)*	VOC	Recommended Disposition	Rationale
000-108	Plume Core	215-225	Deep Glacial	1.1	1,1-DCA	Continue annual VOC sampling	Upgradient core well
000-153	Plume Core	190-210	Deep Glacial	3.7	TCE	Discontinue sampling	Core well historically, now perimeter well to the west of the plume. Below MCLs since 2016.
000-154	Plume Core	193-203	Deep Glacial	2.5	TCA	Continue annual VOC sampling	Upgradient core well
000-212	Plume Core	200-210	Deep Glacial	3.0	Chloroform	Continue annual VOC sampling	Upgradient core well
000-213	Bypass Detection	185-205	Deep Glacial	9.9	TCA	Discontinue sampling	Beyond capture of NS-2
000-343	Plume Core	320-340	Magothy	5.6	1,1-DCA	Continue annual VOC sampling	Used for upgradient Magothy monitoring, no wells nearby
000-463	Plume Core	163-173	Deep Glacial	0.9	CCL4	Discontinue sampling	Below MCLs since 2016
000-464	Plume Core	183-203	Deep Glacial	1.3	CCL4	Discontinue sampling	Below MCLs since 2016
000-465	Plume Core	185-195	Deep Glacial	28	CCL4	Continue annual VOC sampling	Maximum VOCs detected
000-466	Bypass Detection	180-190	Deep Glacial	1.7	Chloroform	Discontinue sampling	Below MCLs since 2014
000-467	Plume Core	202-212	Deep Glacial	3.5	PCE	Discontinue sampling	Below MCLs since 2004
000-468	Bypass Detection	162-182	Deep Glacial	1.1	Chloroform	Discontinue sampling	Below MCLs since 2004
000-470	Plume Core	170-180	Deep Glacial	2.4	CCL4	Discontinue sampling	Below MCLs since 2006
000-472	Plume Core	206-216	Deep Glacial	12	PCE	Continue annual VOC sampling	VOCs consistently detected above MCLs
000-474	Plume Core	195-205	Deep Glacial	7	PCE	Continue annual VOC sampling	VOCs consistently detected above MCLs
000-475	Plume Perimeter	187-207	Deep Glacial	1.6	Chloroform	Discontinue sampling	Below MCLs since 2007, to the east of the plume
000-476	Plume Perimeter	195-215	Deep Glacial	1.4	TCA	Discontinue sampling	Below MCLs since 2004, to the west of the plume
800-63	Bypass Detection	196-216	Deep Glacial	1.3	TCE	Discontinue sampling	Below MCLs since 2016

Appendix 3
North Street Monitoring, Extraction, and Recharge Well Recommended Disposition

Well ID	Well Type	Screen Depth (feet below grade)	Aquifer	Max VOC Conc. (µg/L)*	VOC	Recommended Disposition	Rationale
000-471	Extraction NS-1	165-205	Deep Glacial	1.8	CCL4	Discontinue sampling	Maintain until PFAS and 1,4-dioxane characterization is complete
000-473	Extraction NS-2	190-220	Deep Glacial	6.1	PCE	Discontinue sampling	Maintain until PFAS and 1,4-dioxane characterization is complete
000-462	Recharge IW-1	55-95	Shallow Glacial	NA	NA	Maintain	Recharge Well. Maintain for use with NSE EDB treatment system
800-114	Recharge IW-2	55-95	Shallow Glacial	NA	NA	Maintain	Recharge Well. Maintain for use with NSE EDB treatment system
800-116	Recharge IW-3	55-95	Shallow Glacial	NA	NA	Maintain	Recharge Well. Maintain for use with NSE EDB treatment system
800-117	Recharge IW-4	55-95	Shallow Glacial	NA	NA	Maintain	Recharge Well. Maintain for use with NSE EDB treatment system

*VOC concentration is the maximum from 2018 and 2019 sampling.